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FREE JET ACOUSTIC INVESTIGATION OF HIGH-RADIUS-RATIO COANNULAR PLUG NOZZLES

Contract NAS3-20619

Comprehensive Data Report

VOLUME I

By

P.G. Vogt P.K. Bhutiani P.R. Knott

January 1981



Prepared for
National Aeronautics and Space Administration
Lewis Research Center
21000 Brookpark Road
Cleveland, Ohio 44135

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This report is a companion document to the Contractor Final Report issued under this contract. The report describes the acoustic test models, the test facility, and the data acquisition/reduction procedures. A detailed definition of all test points is listed in tabular form. Results of both the acoustic and laser velocimeter tests are presented in a reduced data format following the standard practice of General Electric's Jet Noise Technology Section. Discussions and interpretations of the test results are contained in the Final Report, In all, six coannular plug nozzle configurations, having inverted velocity and temperature profit and a baseline convergent conical nozzle were tested for simulated flight acoustic evaluation in General Electric's Amechoic Free-Jet Acoustic Facility. The nozzles were tested over a range of test conditions that are typical of a Variable Cycle Engine for application to advanced high speciaircraft. The outer stream radius ratio for most of the configurations was 0.853, and the inner-stream-outer-stream area ratio was tested in the range of 0.2 to 0.54. Other variables investigated were the influence of bypass struts, a simple noncontoured convergent-divergent out stream nozzle for forward quadrant shock noise control, and the effects of varying outer stream radius and inner-stream-to-outer-stream velocity ratios on the flight noise signatures of the nozzles. It was found that in simulated flight, the high-radius-ratio coannular plug nozzles maintain their jet noise and shock noise reduction features previously observed in static testing The presence of nozzle bypass struts will not significantly effect the acoustic noise reduction features of a General Electric-type nozzle design. A unique coannular plug nozzle flight acoust: spectral prediction method was identified and found to predict the measured results quite well. Special laser velocimeter and acoustic measurements were performed which have given new insight into the jet and shock noise reduction mechanisms of coannular plug					
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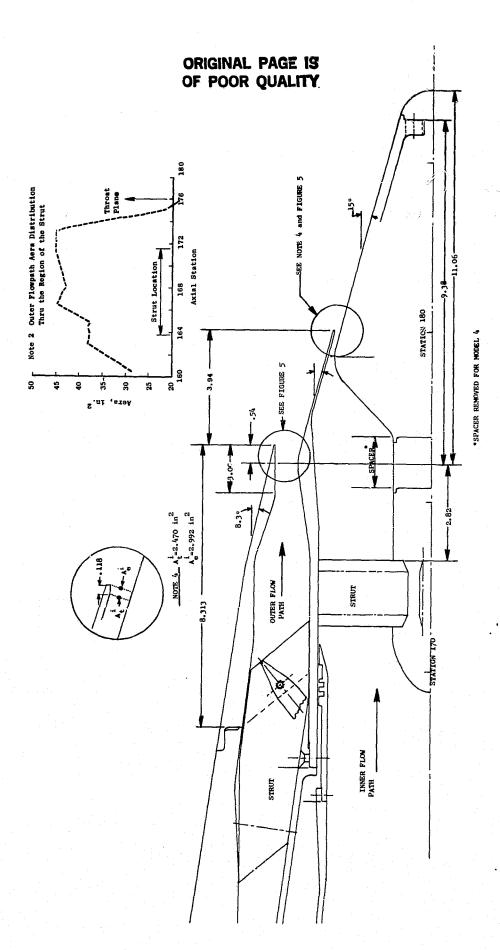
1.0 INTRODUCTION

This Comprehensive Data Report includes the basic test description and test results which are analyzed and documented in the Final Report.

2.0 DESCRIPTION OF ACOUSTIC MODELS

Seven nozzle configurations (six coannular plug and one circular conic nozzle) were selected and tested in this program. The nozzle selections and design details are discussed in a Design Report (Reference 1). The coannular plug nozzles selected were generic to General Electric's exhaust nozzle concepts for application to Advanced Supersonic Technology Variable Cycle Engine (AST/VCE). These AST/VCE nozzles are generally of a high outerstream radius ratio design with coannular (noncoplanar) flows and on a plug nozzle arrangement. The flows are of an inverted velocity and temperature nature.

Drawings of nozzle arrangements for Models 1, 2, 3 and 4 are shown in Figure 1. As shown, this figure shows Model 1. This model had the inner nozzle lip with a non-contoured, convergent-divergent (C-D) termination. Note 4 on Figure 1 defines throat to exit areas for this configuration. design was not actually desired but inadvertently fabricated when the manufacturer used a boring process to terminate the inner nozzle rather than facing the inner nozzle outer shroud so that a simple convergent termination could be obtained. This C-D termination was only noticed when post test geometry measurements were being taken. As can be noted from the insert note 4 on Figure 1, the C-D area expansion of $A_e^i/A_t^i = 1.21$ occurred within a length of only 0.118 inches and was not at first detected in the hardware checkout. This model was tested and the data is contained herein, but this C-D inner stream lip was reworked to have an inner stream convergent termination and was designated as Model 1A. All of the other models were also tested with this inner stream conic termination. Model IA then was a near similitude coannular plug nozzle to a YJ101 engine test nozzle which was tested under NASA3-20582 (See CR-159869). Other detailed nozzle dimensions for these models and the others are contained in Table I. Of particular note for Model IA (and 1) is the existence of eight



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Figure 1. Details of Models 1, 2, 3 and 4 Assemblies.

struts. These struts were designed as near similitude designs to the YJ101 engine design, as noted above, and are used in engine application to pass the outer fan duct flow into the inner nozzle. Since the General Electric Anechoic Free-Jet Acoustic Test Facility contains independent temperature and pressure of each stream, it was not necessary to physically invert the flow. Thus the nozzle flow conditions and flow distributions around the outer struts were simulated in these model scale experiments, but the duct flow through the struts was not attempted or considered important to these acoustic simulations. The area distribution through the region of the strut is shown in the upper right hand corner of Figure 1. Any other design details should be obtained from Reference 1.

Model 2 was obtained by simply removing the struts; thus, by comparing Models 1A and 2 a determination of the influence of struts on the nozzle exhaust noise radiation can be made. Model 3 was similar to Model 2 in terms of outer flow radius ratio and inner to outer nozzle area ratio $(R_{\mathbf{r}}^{0} \sim .85 \text{ and } A_{\mathbf{r}}^{i} \sim .2 \text{ --} \text{ See Table I})$ and without struts. But now the outer stream nozzle was configured to be a convergent termination rather than the C-D terminations of Models 1, 1A and 2. This termination was obtained by the removal of a .554 inch spacer located in the outer flow hardware at axial station ~ 150 (See Figure 2 for the location of this space piece). Thus, by comparing Models 2 and 3, the effect of outer stream terminations can be evaluated.

Model 4 was obtained by removing the 1.480 inch spacer from the inner plug identified in Figure 1. Figure 2 shows the assembly drawing of Model 4. This drawing also shows the location of the tertiary nozzle and the locations of nozzles and tertiary charging stations (designated by axial station numbers). Thus by comparing Models 4 and 3, an acoustic evaluation of the influence of CRIGINAL PAGE.

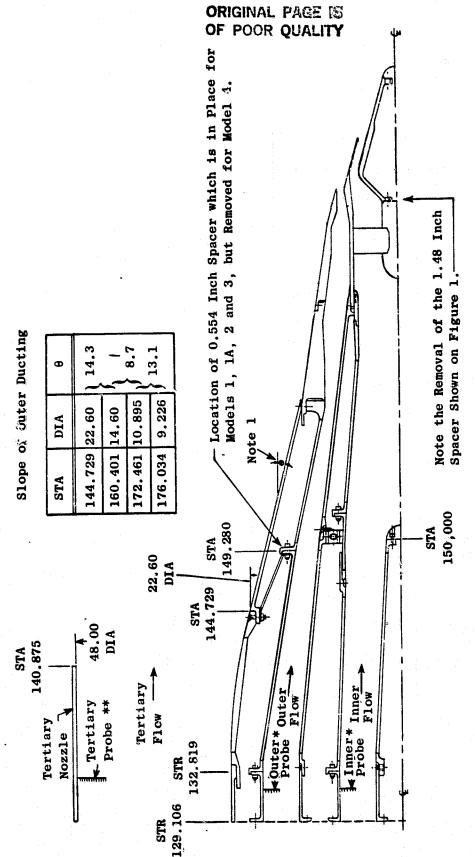


Figure 2. Details of Model 4 Assembly.

2 Probes 180° Apart (Each Having 3 P_t and 3 T_t Elements) 1 Probe (Having 6 P_t and 6 T_t Elements)

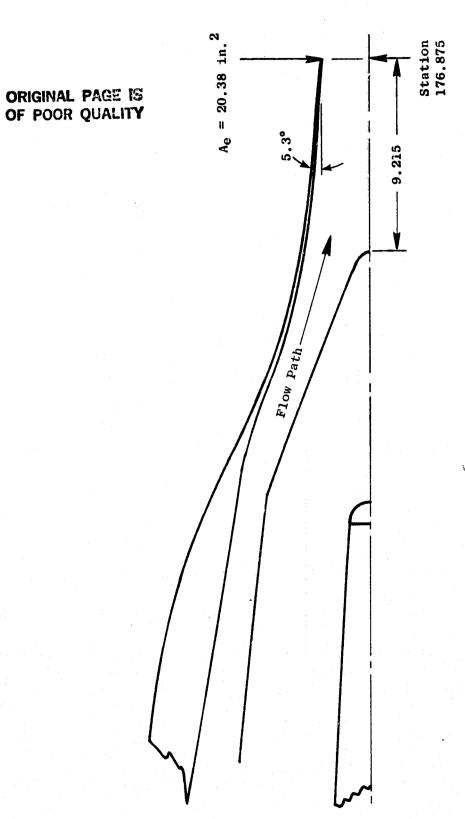
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inner stream area ratio from 0.526 to 0.194, for the same outer and inner nozzle terminations and the same outer nozzle radius ratio ($R_r^o \sim .85$), can be made.

Model 5 was the baseline circular convergent conical nozzle. Figure 3 and Table I define the important geometric parameters for this model.

The coannular plug nozzles 6 and 7 designs are shown in Figure 4. These nozzles were previously tested statically under contract NAS3-19777 (NASA CR-3149). By comparing Models 6 and 4, the influence of outer nozzle radius ratio can be determined ($A_r^i \sim .52$ for both while Model 6 has $R_r^o \sim .901$ and Model 4 has a $R_r^o \sim .85$). Model 7 was similar to Model 1A but did not have struts or a similitude outer nozzle flow path to the YJL01 engine test nozzle mentioned earlier. The inner to outer nozzle area ratio, A_r^i , was also slightly larger ($A_r^i \sim 0.324$ vs 0.194 for Model 1A). Since this model was existing, testing was initiated on this model first; and much of the aerothermodynamic acoustic parametric testing described in Section 5.0 was performed on this nozzle.

Table I summarizes the detailed model dimensions. Note that the inner nozzle exit dimensions are only shown for Model 1, since all other models were with a convergent conic nozzle termination (i.e., with the same location for the throat and exit). Other details of the nozzle area calculations are contained in Figure 5. Note that the $\cos \theta$ is needed in the area calculations for the nozzles with a throat at an angle θ to the vertical.



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Figure 3. Details of Conic Model 5 Assembly.

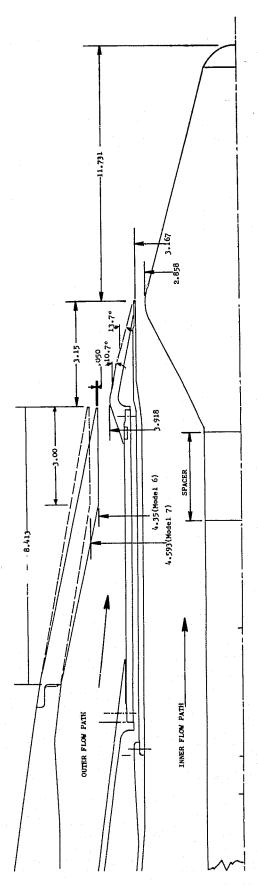


Figure 4. Details of Models 6 and 7.

Table I. Detailed Dimensions of Model Nozzles.

				- <u></u> -	Mod	el .			
Parameter	Symbol Symbol	1	1.4	2	3	4	5	6	7
Outer Throat Height	-h _t , inches	0.675	0.675	0.675	0.675	0.675		0.432	0.580
Inner Throat Height	h <mark>i</mark> , inches	0.140	0.20	0.197	0.20	0.582		0.309	0.307
Outer Throat Area	Ato, in.2	18.049	18.049	18.049	18.049	18.049	20.38	11.224	18.171
Inner Throat Area	A_t^1 , in. ²	2.470	3.496	3.446	3.496	9.499		5.847	5.815
Throat Area Ratio,	At/Ac	0.137	0.194	0.191	0.194	0.526		0.521	0.324
Total Throat Area	At, in.2	20.519	21.545	21.495	21.545	27.548	20.38	17.071	23.986
Equivalent Diameter Based on Throat Area	Deq inches	5.11	5.24	5.23	5.24	5.92	5.09	4.66	5.53
Outer Exit Height	he, inches	0.757	0.757	0.757					
Inner Exit Height	h <mark>e</mark> , inches	0.1705							
Outer Exit Area	Ae, in.2	20.060	20.060	20.060					
Inner Exit Area	A. in. 2	2.992							
Exit Area Ratio	A_e^1/A_e^0	0.149							
Outer Exit/Throat Area Ratio	A _e ^o /A _t	1.11	1.11	1.11					
Total Exit Area	Ac, in.2	23.052					, 		
Equivalent Diameter Based on Exit Area	D _{eq} , inches	5.42							
Outer Hub Radius	R_1^0 , inches	3.918	3.918	3.918	3.918	3.918		3.918	3.918
Outer Tip Radius	R ₂ , inches	4.593	4.593	4.593	4.593	4.593	2.547	4.350	4.593
Inner Hub Radius	R ₁ , inches	2.740	2.686	2.686	2.686	2.317		2.858	2.858
Inner Tip Radius	R ⁱ , inches	2.875	2.879	2.879	2.879	2.879		3.167	3.167
Outer Radius Ratio	$R_r^o = (R_1^o/R_2^o)$	0.853	0.853	0.853	0.853	0.853		0.901	0.853
Inner Radius Ratio	$R_{\mathbf{r}}^{\mathbf{i}} = (R_{1}^{\mathbf{i}}/R_{2}^{\mathbf{i}})$	0.953	0.933	0.933	0.933	0.805		0.902	0.902
Outer Exit Stagger	X ^o , inches	3.466	3.346	3.346	3.900	3.900		3.176	3.150
Outer Stagger/Outer Throat Height	xº/ht	5.13	4.96	4.96	5.78	5.78		7.35	4.63
Shroud Angle	θ ¹ _s , degrees	15*	15*	15*	15*	15*		11*	112
Plug Angle	θ_s^2 , degrees	15*	15*	15*	15*	15*		15*	15*
Internal Struts		Yes	Yes	No ···	No	No	No	No	No
C-D or Convergent Outer		C-D	C-D	C-D	Conic	Conic	Conic	Conic	Conic
C-D or Convergent Inner		C-D	Conic	Conic	Conic	Conic		Conic	Conic

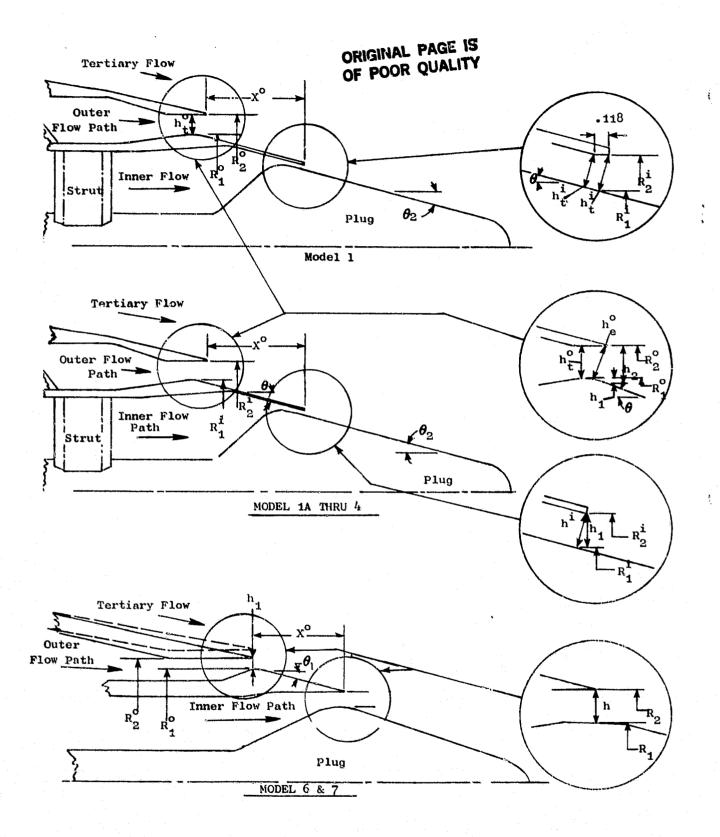


Figure 5. Details of Nozzle Exits.

3.0 DESCRIPTION OF TEST FACILITY

3.1 ACOUSTIC FACILITY DESCRIPTION

All acoustic testing was performed in the General Electric jet noise anechoic test facility located in Evendale, Ohio. This facility can accommodate model exhaust nozzle configurations ranging in size from a 0.08 in. to a 6.25 in. diameter model and has the capability to run both single and dual flow models. In addition, a 4 foot diameter tertiary duct surrounds the model nozzles with airflow which can be used to simulate forward flight.

A schematic of the jet noise anechoic facility showing the triaxial flow arrangement (i.e., fan, core, and tertiary flow) is presented in Figure 6. The fan and core airflows separate off from the main header and flow through individual orifice flow rate meters, combustors, silencers, and plenum chambers before entering the model nozzle. The dual flow arrangement is described in detail in Reference 2.

The tertiary air system consists of a 250,000 scfm (50 inches H₂O static pressure) fan and 3500 hp electric motor. Transition ductwork and silencer route the air from the fan discharge to the tertiary plenum chamber. The silencer reduces the noise level by 30-50 dB. Air supply to the fan is pulled through the existing buildup area inlet silencer. The tertiary plenum chamber (14 feet x 12 feet x 10 feet) is located just below the test deck. Three walls and the floor are covered with acoustic treatment (4 inch thick fiber glass pillows covered with fiber glass cloth and perforated plate). The coannular plenum chamber remains, as before, in the new tertiary plenum chamber. Air enters the plenum flowing horizontally, then turns vertically, and enters a 6 feet long cylindrical test section which is 7 feet in diameter mounted on the top of the test deck. This cylindrical duct contains a flow straightening screen and honeycomb (10 inch length x 14 inch hexagonal cells) section. duct then smoothly transitions to the 4 foot diameter tertiary discharge nozzle at the exit plane. This yields a free-jet-to-jet-nozzle area ratio of about 63 (based on 6-inch equivalent diameter nozzle). Maximum tertiary flow rate of about 310 lb/sec permits simulation of Mach numbers in excess of 0.30. Mach number variation is obtained by varying the fan inlet vanes (changing the tertiary airflow rate).

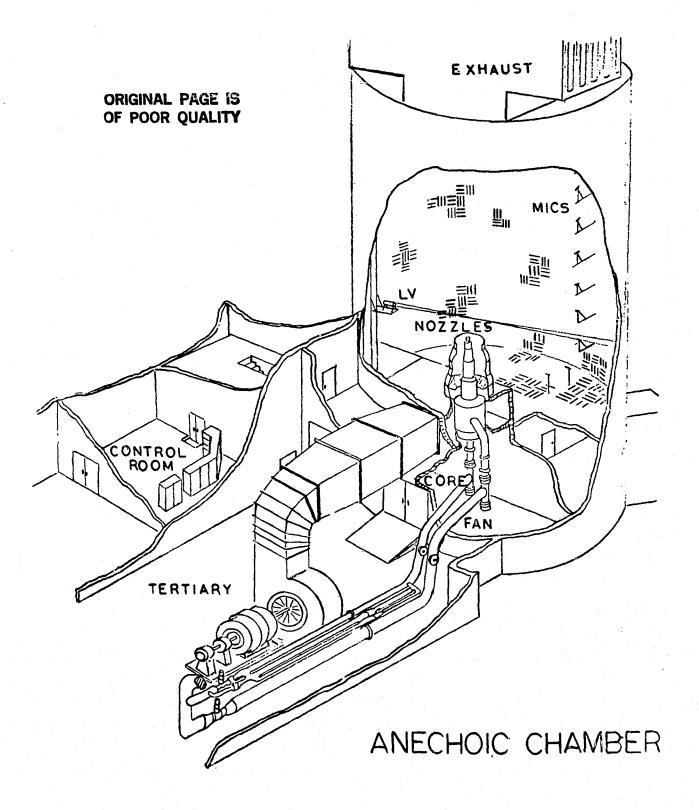


Figure 6. General Electric Anechoic Free Jet/Jet Noise Facility Schematic.

A Mach number of approximately 0.41 was obtained with the vanes fully open. Entrained flow from the outside passes through a silencer and enters the anechoic chamber through the acoustic wedges on the floor. The airflow exits through the "T" exhaust stack in the ceiling of the chamber directly over the nozzles. A schematic of the jet noise anechoic facility showing the tertiary flow arrangement and microphone locations is shown in Figure 7.

Visual observations of tufts located on the exhauster and ceiling mikes during maximum tertiary flow conditions indicated that no chamber recirculation existed. A windmeter at the 130° mike indicated velocities below 1 ft/sec.

The tertiary flow rate can be determined from either a total pressure rake or from static pressure taps located around the tertiary exhaust. The total pressure rake was removed during acoustic testing to avoid additional strut noise.

An overhead view of the tertiary with a conic nozzle installed is shown in Figure 8. Acoustic wedges surround the outside of the tertiary duct as well as on the walls, ceiling, and floor of the anechoic chamber. The walk-way grating is removed prior to acoustic testing. The laser velocimeter (LV) shown in the far right of the figure is also removed during acoustic testing.

3.2 ACOUSTIC CHARACTERISTICS OF ANECHOIC CHAMBER

Both inverse square laws and background noise level tests were conducted at no cost to this NASA program to provide information on the acoustic characteristics of the anechoic chamber. The results of these tests are reported herein.

3.2.1 Inverse Square Law Tests

The inverse square law tests at the 90° microphone position are shown in Figure 9. Both tertiary and coannular nozzle hardware were in place for this static test. A speaker was used as the sound source for frequencies from

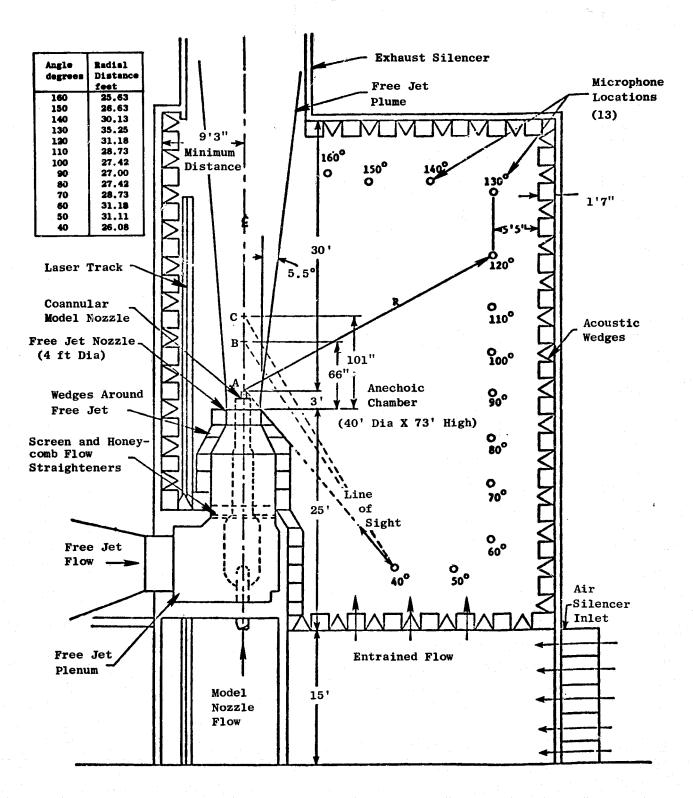
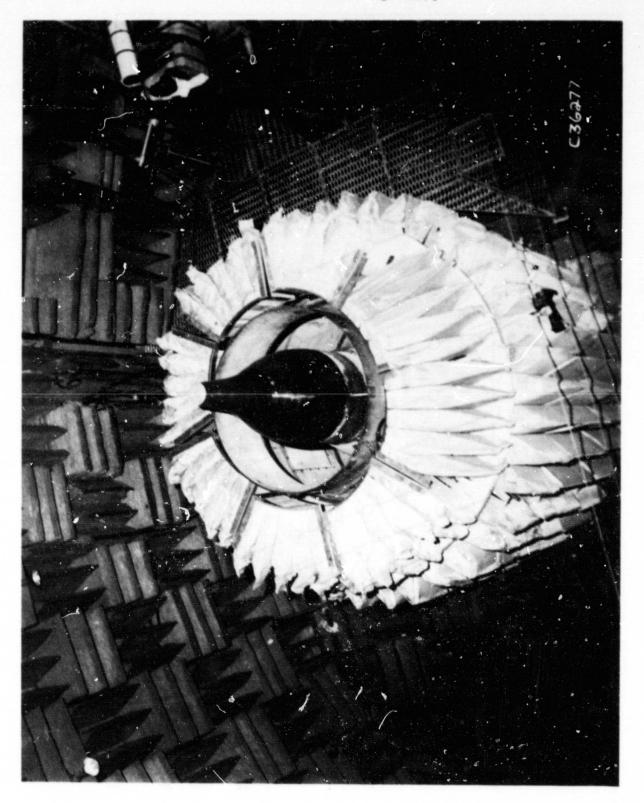


Figure 7. Free Jet Arrangement in Cell 41 Anechoic Facility.



Overhead View of the Tertiary Flow Stream with a Conic Nozzle Installed. Figure 8.

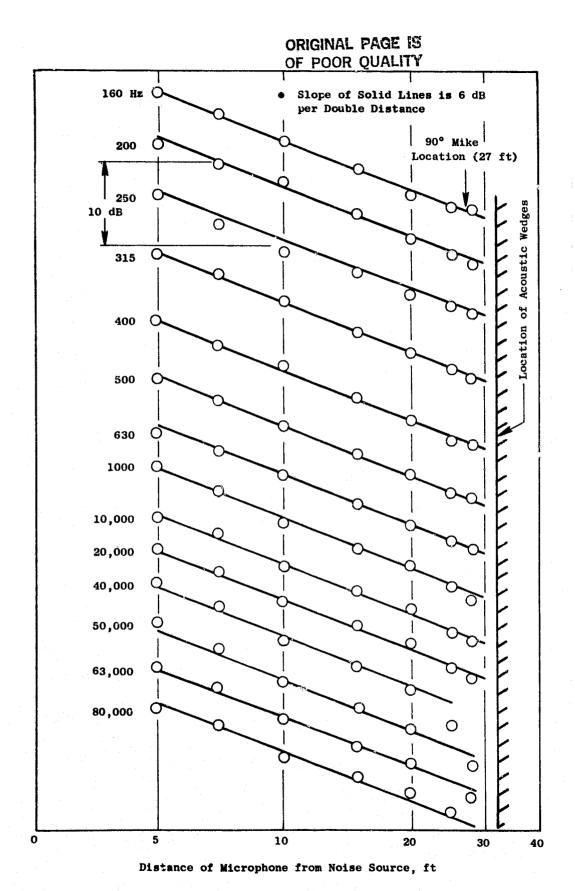


Figure 9. Inverse Square Law Test at 90° with Tertiary and Coannular Nozzle Hardware (Bass, Bauer and Evans Atmospheric Correction Included), Lossless for 160 Hz < f< 630 Hz, Used Speaker and for 1000 Hz < f< 80 kHz Used Air Ball.

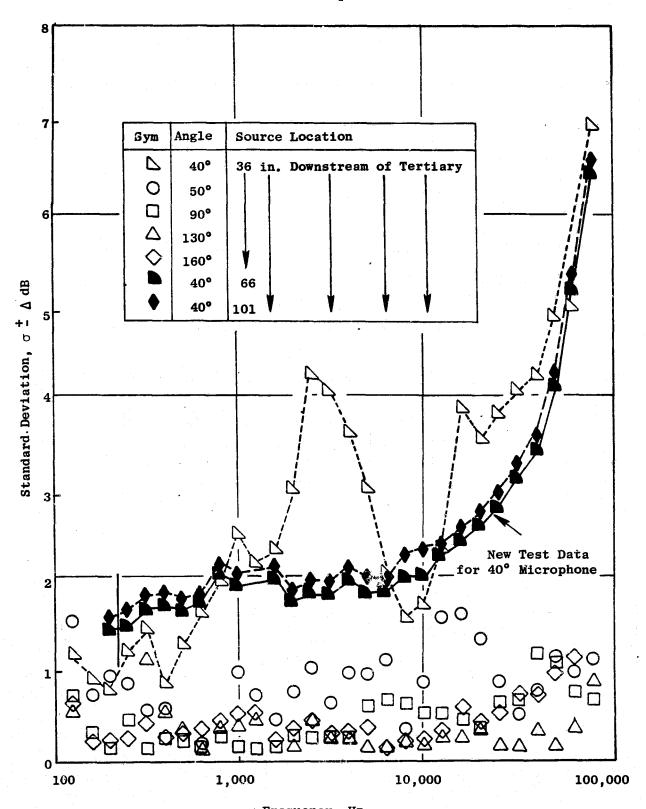
160 Hz to 630 Hz, and an air ball was used for frequencies from 1000 Hz to 80 kHz. The details of the procedure are given in Reference 2. A microphone was traversed from a position of 5 feet from the noise source to a position near the far wall wedges. Data recorded at six to seven positions along the traverse are shown in Figure 9. The data follow the 6 dB reduction per doubling of distance trend quite well.

The standard deviation of the inverse square law tests for five angles is shown in Figure 10. The calculation for the standard deviation is derived and described in Reference 2. Two axial locations of the air ball sound source downstream of the tertiary (66 inches and 101 inches) were used in addition to the standard 36 inch distance in order to obtain the actual standard deviation for the 40° microphone. It was realized that the air ball located at Location A (see Figure 7) did not represent the source location of the lower and midfrequencies. The "line-of-sight" for those frequencies, whose sources are located further downstream, would be less influenced by the wedges. The data for the two positions "B" and "C" (Figure 7) are shown in Figure 10. Very little difference in levels is found between the two positions. Comparison of this data with that at position "A" (i.e., 36 inches downstream of the tertiary) shows the interference caused by the wedges. Basically, the large fluctuations in the standard deviation have been replaced with a more realistic curve.

3.2.2 Background Noise

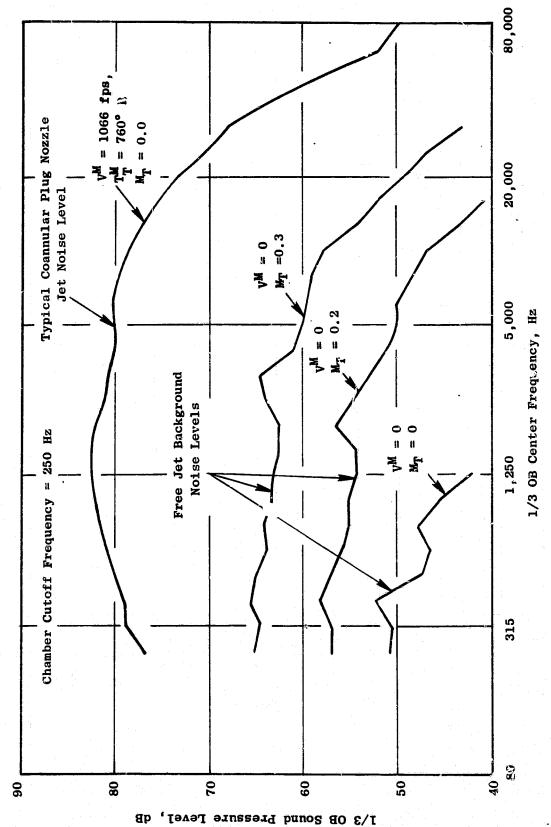
The effect of the tertiary flow on the background noise level is shown in Figures 11, 12, and 13 for the 50° , 90° , and 150° microphones, respectively. Only data above the facility design cutoff frequency of approximately 250 Hz are shown. Typical spectra for a coannular nozzle having a mixed velocity $(V^{\rm M})^*$ of 1066 ft/sec are shown with and without tertiary flow. The jet noise levels are considerably above the free jet background. Even in the worst case (i.e., $V^{\rm M}=1066$ fps with the tertiary Mash number $(M_{\rm T})=0.3$ spectra versus $V^{\rm M}=0$ fps with $V^{\rm M}=0.3$ spectra), the jet noise is $V^{\rm M}=0.3$ spectra tertiary flow background noise. Thus the tertiary flow is not expected to influence the jet noise levels or spectra for jet velocities of $V^{\rm M}=0.3$ fps or more.

^{*} See Section 5.0 for the definition of the mixed velocity V^{M} .

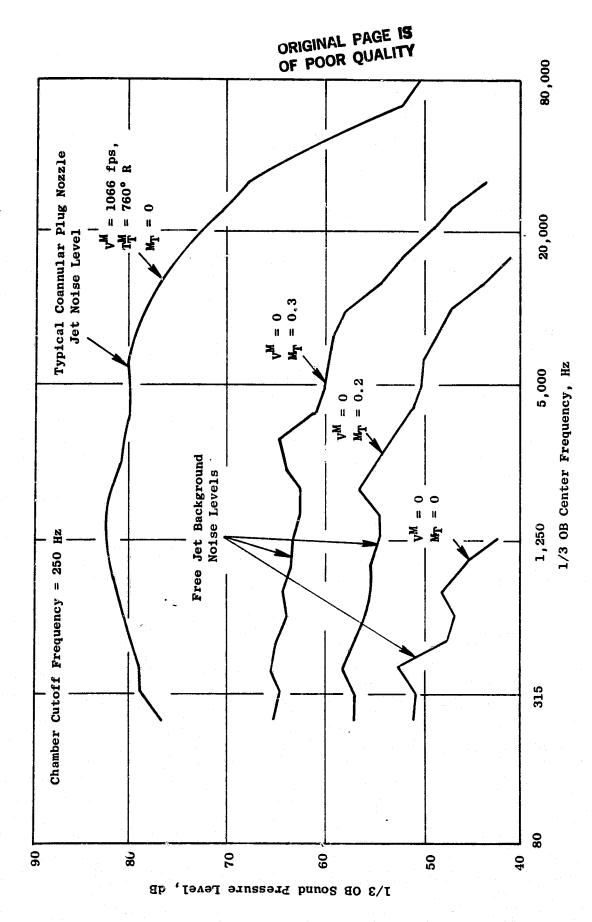


Frequency, Hz

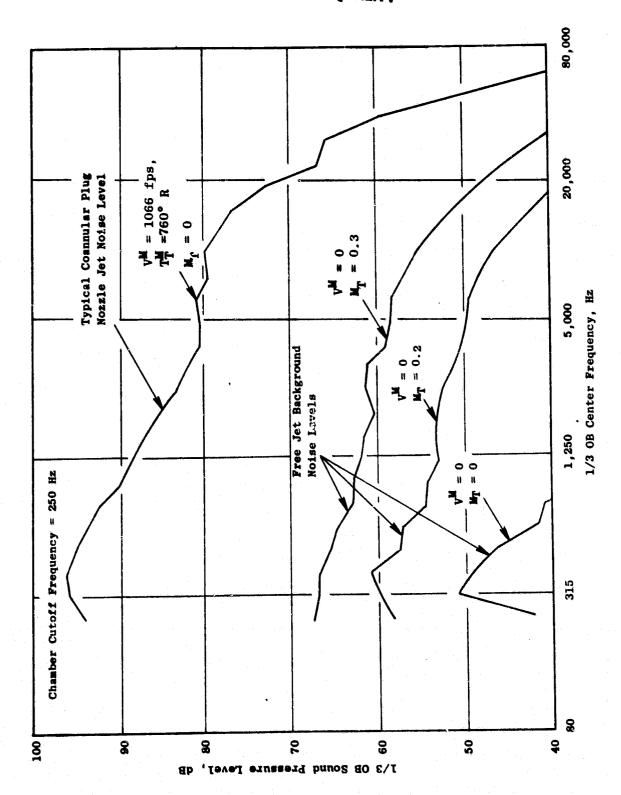
Figure 10. Standard Deviation of Inverse Square Law Tests with Tertiary and Coannular Nozzle Hardware.



Comparison of Coannular Jet Noise Spectra with the Tertiary (Background) Noise Spectra $\theta_{\rm I}=50^{\rm o},~40$ Foot Arc Data. Figure 11.



Comparison of Coannular Jet Noise Spectra with the Tertiary (Background) Noise = 90°, 40 Foot Arc Data. Spectra $\theta_{\rm I}$ Figure 12,



Comparison of Coannular Jet Noise Spectra with the Tertiary (Background) Noise Spectra $\theta_{\rm I}$ = 150°, 40 Ft Arc Data. Figure 13.

3.3 DESCRIPTION OF AERODYNAMIC TESTS

Studies were made at no cost to this NASA program of the mean velocity and turbulence intensity distributions at the tertiary exit plane and at various locations downstream. The development of the free jet (tertiary) plume was also studied. A schematic of the free jet test arrangement is shown in Figure 14. A nominal 6 inch diameter coannular inner jet with the core flow plugged upstream is shown extending 3 feet downstream of the free jet. For most tests, the inner jet velocity equalled the free jet velocity to prevent any "dead" flow regions. The directions (N, S, E, and W) are shown around the tertiary for later reference to traverse direction. Laser velocimeter and hot wire measurements were made at Stations A, B, C, and D as shown in Figure 14. Measurements were made at tertiary Mach numbers of 0.3 and 0.174. Axial, radial, and azimuthal test results are as follows.

3.3.1 Mean Velocity Profile Test

The radial variation of the mean velocity for two axial positions is shown in Figure 15. Note that at the tertiary exit plane (i.e., X/D = 0) the radial mean velocity profile is relatively uniform for the two radial traverses and for both Mach numbers. Note that at the inner jet exit plane (i.e., X/D = 0.75), the mean velocity has decayed slightly from its value at X/D = 0. This is discussed below in detail. The radial mean velocity profile is uniform for both Mach numbers at this test location, except near the test nozzle wall (due to boundary layer buildup, also discussed below) and in the tertiary mixing (i.e., shear) layer. The mean velocity in the tertiary shear layer is lower for the Mach number 0.174 condition than for the 0.3 condition.

The axial variation of the mean velocity is shown in Figure 16 for two radial positions. It is seen that the tertiary potential core (i.e., $r/r_0 = 0$ position) extends to at least five tertiary diameters for both Mach numbers. Thus, the jets issuing from the inner nozzle do not detect any decay in the tertiary flow from two to at least five tertiary flow diameters. Note the reduction in centerline mean velocity between Location 1 and 2 diameters downstream for both Mach numbers. This reduction is due to the %nner nozzle exit velocity being equal to the tertiary nozzle exit velocity. Since the

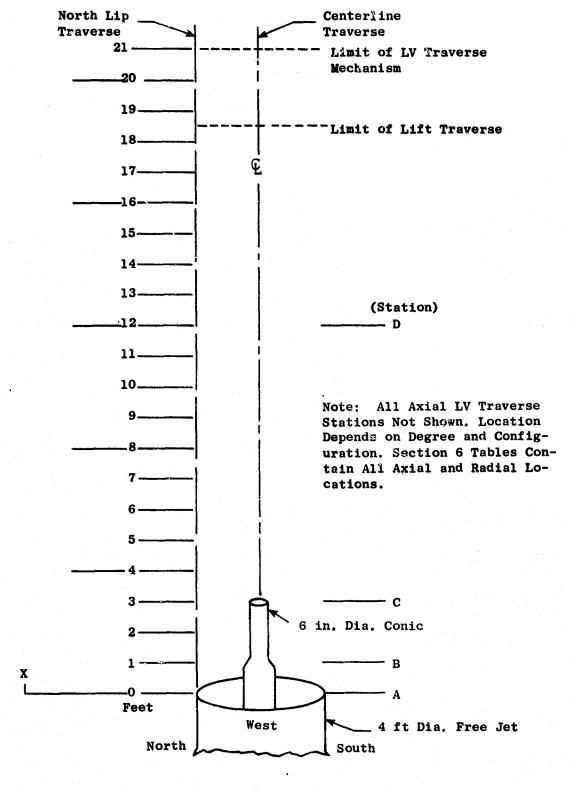


Figure 14. Schematic of Free Jet Test Arrangement, View Looking East.

•	D	=	4.0	ft
•:	r	. =	= 2.0	0 ft

Symbol	М	U _{Max} fps	Traverse		
0 • 🗆	0.300 0.174 0.300 0.174	349 213 349 213	$ \begin{array}{cccc} E & \longrightarrow W \\ E & \longrightarrow W \\ S & \longrightarrow N \\ S & \longrightarrow N \end{array} $		

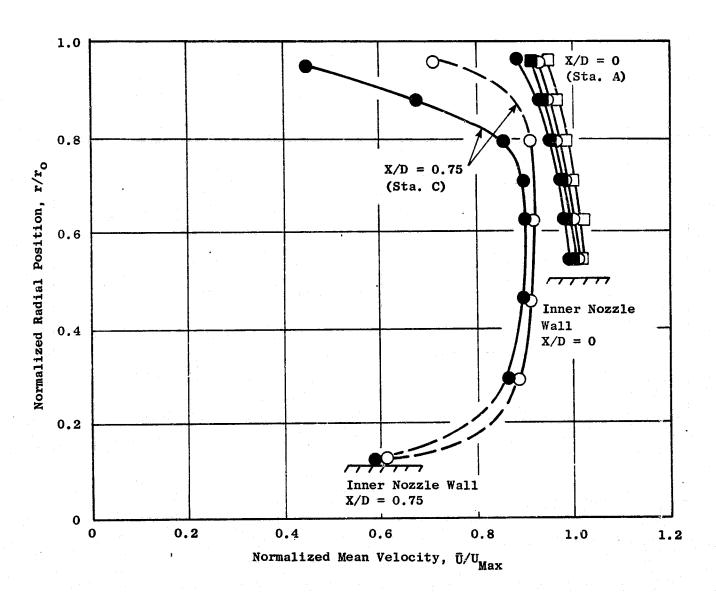


Figure 15. Radial Variation of Free Jet Mean Velocity Laser Velocimeter Data.

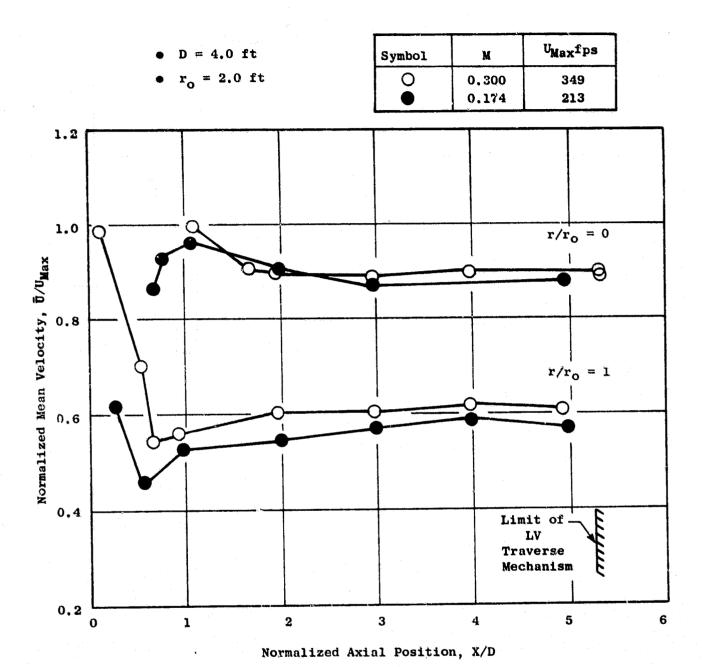


Figure 16. Axial Variation of Free Jet Mean Velocity Laser Velocimeter Data.

tertiary mean velocity at the inner nozzle exit is 10% less than that at the tertiary exit (as discussed below), the mixed velocity will be reduced. The complete extent of the potential core could not be described due to the limit of the laser velocimeter track system in the facility. However, beyond X/D=6 (i.e., 24 ft), the velocity is expected to decay at the rate of 1/X as shown in Reference 2. The axial variation at $r/r_0=1$ shows a typical decay of mean velocity to approximately 60% of its maximum value, and thereafter maintains the same value for X/D between 2 to 5. This region of uniformity suggests a similarity of tertiary mean velocity profile throughout the range of traverse. Note that the value of mean velocity for M=0.174 is again somewhat less than that for M=0.3 at the shear layer region (i.e., $r/r_0=1$).

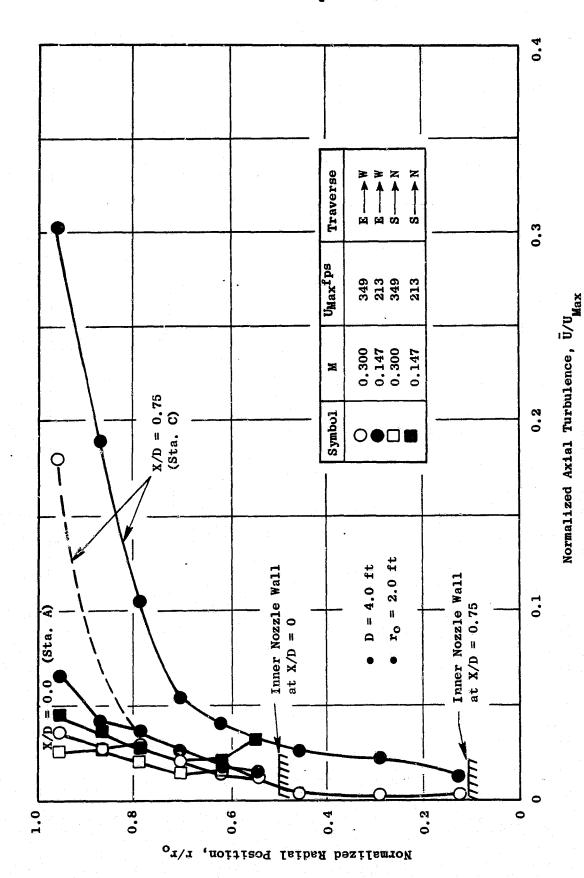
3.3.2 Turbulent Velocity Profile Test

The radial variation of axial turbulence velocity is shown in Figure 17 for two axial positions. The turbulence intensity levels appear relatively unaffected by Mach number or by traverse direction at the tertiary exit plane (i.e., X/D=0). The turbulence levels are approximately 2.5% at the tertiary exit plane. At the exit plane of the inner jet (i.e., X/D=0.75), the inner nozzle sees turbulence levels of less than 0.5% at M=0.3 and approximately 2.5% at M=0.174. Note that the turbulence intensity for M=0.174 is greater than that for M=0.3 for all radial positions at X/D=0.75.

The axial variation of normalized turbulence is shown in Figure 18 for two radial positions. The turbulence level is relatively constant at $r/r_0 = 1$ for both Mach numbers for values of X/D greater than 2. The general distribution found here for the tertiary is similar to what has been observed for model scale subsonic tests (Reference 2).

3.3.3 Tertiary Plume Symmetry Test

The azimuthal variation of the mean velocity at the tertiary nozzle exit (i.e., X/D = 0) for M = 0.3 is shown in Figure 19. Hot wire data taken every 30° are shown for three radial positions. Laser velocimeter data were taken for only North and West traverses. The azimuthal variation in mean velocity



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Figure 17. Radial Variation of Free Jet Axial Turbulence Laser Velocimeter Data.

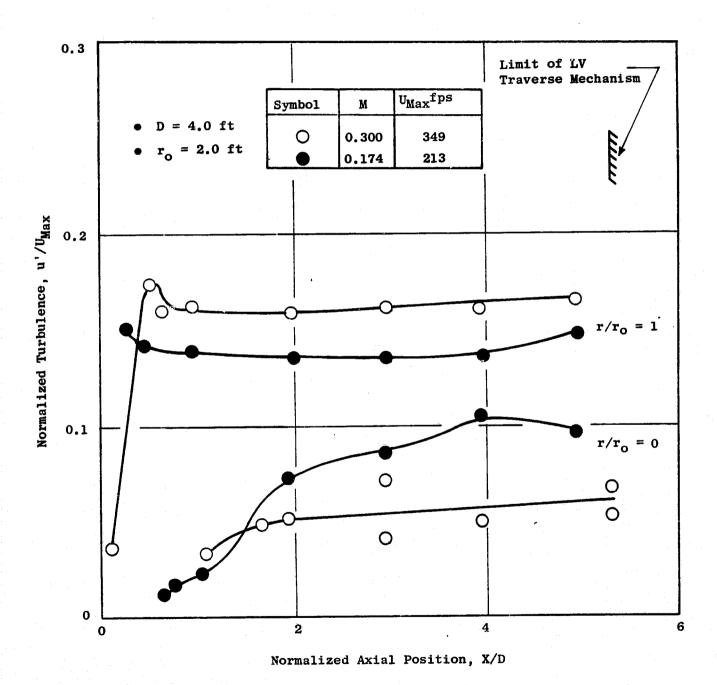


Figure 18. Axial Variation of Free Jet Axial Turbulence Laser Velocimeter Data.

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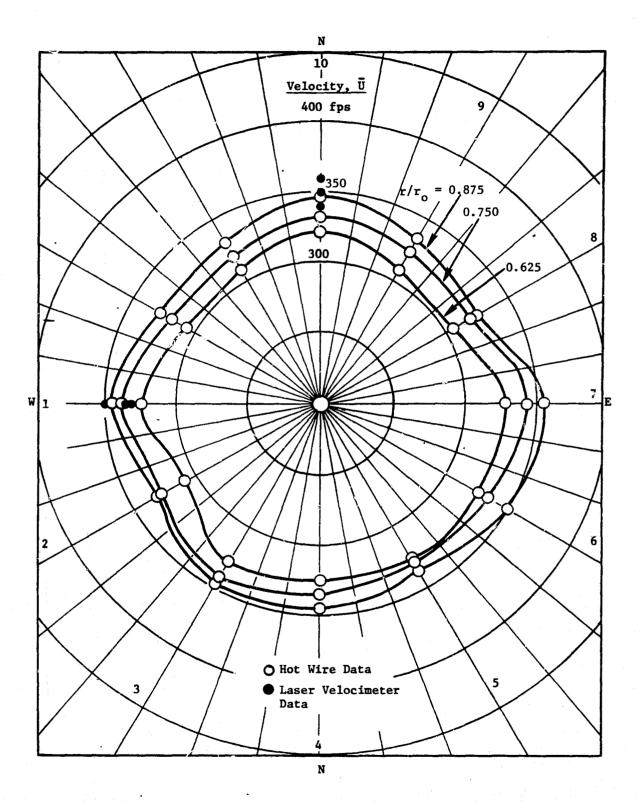


Figure 19. Azimuthal Variation of Mean Velocity at M = 0.3 Laser Velocimeter/Hot Wire Data.

for M = 0.174 is shown in Figure 20 for the same radial positions. Hot wire and laser velocimeter data show good agreement. The LV data for the West traverse were used to smooth out the curve at that location. Even through the actual variation at M = 0.3 appears worse than that at M = 0.174, on a percentage basis, the opposite is true. The average LV variation in mean velocity was calculated to be 2.33% for M = 0.3 and 2.80% for M = 0.174. The same trend is shown for averaged values obtained from hot wire data which are 2.60% for M = 0.3 and 2.95% for M = 0.174. Thus the design value of 3.0% was successfully achieved with some margin.

The azimuthal variation of turbulence intensity at the tertiary nozzle exit (i.e., X/D = 0) for M = 0.3 is shown in Figure 21. The azimuthal variation in turbulence for M = 0.174 is shown in Figure 22 for the same radial positions. Hot wire and LV data agree better in the M = 0.3 case (Figure 21) than in the M = 0.174 case (Figure 22). The average azimuthal turbulent intensity was calculated to be 2.26% for M = 0.3 and 3.26% for M = 0.174 for LV data. The same trend is again shown for hot wire results of 1.83% for M = 0.3 and 2.13% for M = 0.174. These results are considerably better than the design target of 6.0%.

3.3.4 Tertiary Plume Development

The normalized mean velocity profiles at various axial locations are shown in Figure 23 to describe the tertiary velocity decay and boundary layer buildup. The profiles shown are from hot wire radial traverses at five axial locations. The tertiary exit Mach number was 0.3 and the inner jet was "just bleeding flow" to eliminate any "base" regions. It is seen that the tertiary velocity profile is relatively constant at the tertiary exit plane (i.e., Station A, X/D = 0) and is equal to U_{Max} (i.e., $\overline{U}/U_{\text{Max}} = 1$). However, at X/D = 0.27 (Station B), the tertiary velocity profile has decayed to nearly $\overline{U}/U_{\text{Max}} = 0.9$. At X/D = 0.75 (Station C), the tertiary velocity profile peaks at $\overline{U}/U_{\text{Max}} = 0.9$. This peak value of $\overline{U}/U_{\text{Max}}$ is constant for the downstream positions of X/D = 1.5 and 2.3. The constant nature of the peak value of $\overline{U}/U_{\text{Max}}$ in the axial direction is consistent with the constant values at $r/r_0 = 0$ and $r/r_0 = 1$ shown in Figure 16. This initial velocity decay, which is of the order of 10%, is a result of the tertiary flow expansion caused by the inner jet area reduction between Stations A and C. In addition, a sizable

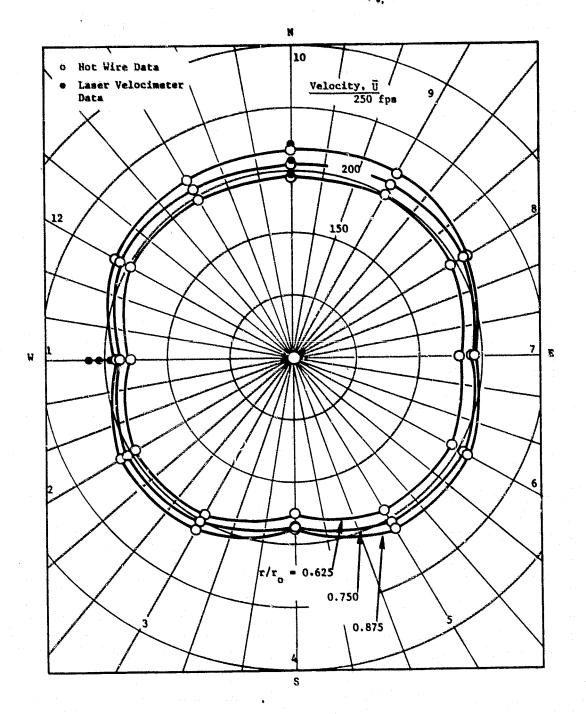


Figure 20. Azimuthal Variation of Free Jet Mean Velocity at M = 0.174 Laser Velocimeter/Hot Wire Data.

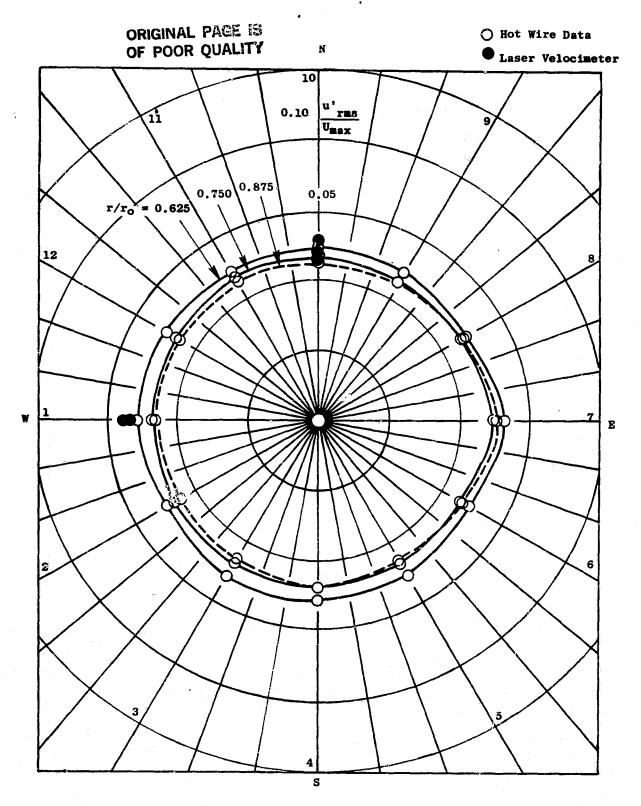
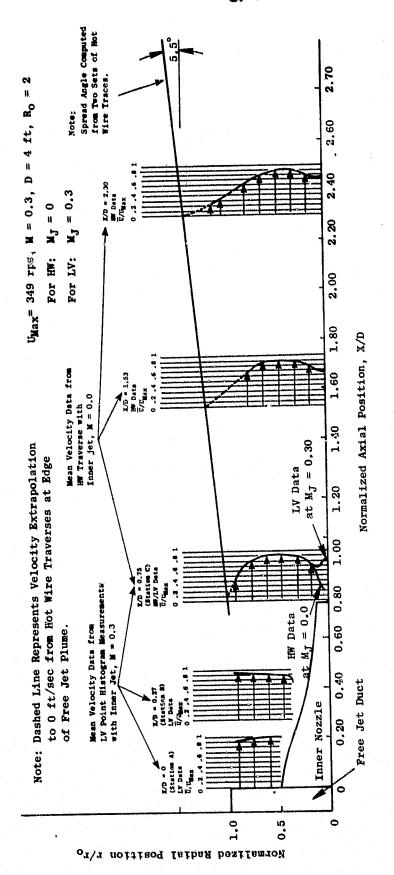


Figure 21. Azimuthal Variation of Free Jet Turbulence Intensity at M=0.3 Laser Velocimeter/Hot Wire Data X/D=0.

Figure 22. Azimuthal Variation of Free Jet Turbulence Intensity at M = 0.174 Laser Velocimeter/Hot Wire Data.

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Axial Variation of Free Jet Mean Velocity HW/LV Data. Figure 23.

velocity deficit, due to the boundary layer buildup along the outside of the inner nozzle, is shown at Station C. Laser velocimeter traverses at Station C, with the inner jet flowing at the tertiary velocity, also showed the same results over the length of the inner jet nozzle (i.e., 10% reduction in tertiary mean velocity and large growth in boundary layer). The magnitude of these effects will, of course, depend upon the type of inner nozzle tested (i.e., tertiary expansion area ratio). For most tests in Cell 41, these effects should be taken into account.

The data show that the tertiary plume does not start spreading appreciably until it reaches the test nozzle exit plane. It then spreads at an angle of approximately 5.5° starting at X/D = 0.8 (See Figure 23). This spreading is assumed to be true for all azimuthal positions. This spreading rate of the plume is reasonably close to the classical spreading rate ($^{\circ}7^{\circ}$).

3.4 FACILITY OPERATING DOMAIN

The temperature-velocity-pressure ratio operating limits of the acoustic facility are shown in Figure 24. The upper limits for either fan or core flow are 1750°R in temperature and 4.5 to 6.0 in pressure ratio, as shown by the dashed line. Jet velocities below 600 ft/sec may be influenced by flow noise.

The range of test conditions set during this program is shown on this operating domain (Figure 24). Note that the outer (fan) flow conditions reached the facility limits in temperature and practically in pressure ratio. The inner (core) flow conditions were at substantially lower temperatures and pressures with two test points (Points 313 and 401) below the flow noise limit. The mixed flow conditions were, however, above this lower limit. The conic nozzle conditions extended the outer flow curve as shown.

Total Temperature at Nozzle Exit Plane, ° R 1750° R 400 800 1200 1800 2000 1200 1100 Outer Nozzle Conic Pressure Inner 1000 Ratio . 6.0 5.0 3000 900 4.0 800 2600 3.0 Jet Velocity, m/sec 700 2200 2.0 600 1800 1.5 500 1400 400 1.25 1000 300 1.1 200 600 Flow Noise 100 0 100 300 500 700 900 1100 1300

Total Temperature at Nozzle Exit Plane, ° K

Figure 24. Dual Flow Operating Domain.

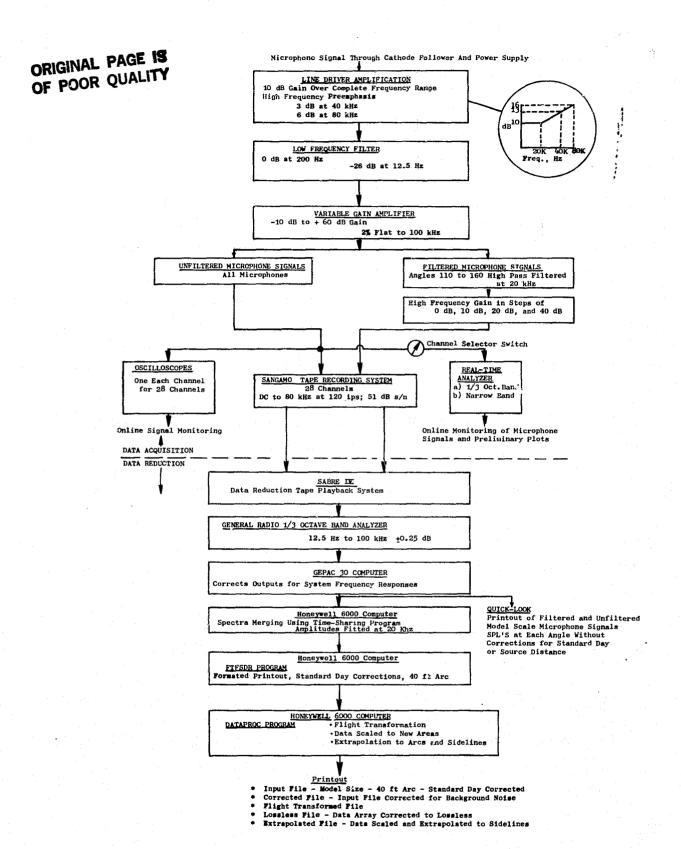
4.0 DATA ACQUISITION AND REDUCTION

4.1 ACOUSTIC DATA ACQUISITION AND REDUCTION

A flow chart of the acoustic data acquisition and reduction system is shown in Figure 25. This system has been optimized for obtaining the acoustic data up to the 80 kHz 1/3-octave center frequency. The microphone type used to obtain 80 kHz data is the B&K 4135, 0.64 cm, condenser microphone for far field measurements. All testing is conducted with microphone grid caps removed to obtain the best frequency response. The cathode followers used in the chamber are transistorized B&K 2619 for optimum frequency response and lower inherent system noise characteristics relative to the 2615 cathode follower. All systems utilize the B&K 2801 power supply operated in the direct mode.

The output of the power supply is connected to a line driver adding 10 dB of amplification to the signal as well as adding "preemphasis" to the high frequency portion of the spectrum. The net effect of this amplifier is a 10 dB gain at all frequencies, plus an additional 3 dB at 40 kHz and 6 dB at 80 kHz due to preemphasis thus increasing the ability to measure low amplitude high frequency data. In order to remove low frequency noise, high pass filters with attenuations of approximately 26 dB at 12.5 Hz decreasing to 0 dB at 200 Hz were installed in the system.

The tape recorder amplifiers have a variable gain from -10 dB to +60 dB in 10 dB steps and a gain trim capability for normalizing incoming signals. High pass filters are incorporated in the acoustic data acquisition systems to enhance high frequency data previously lost in the tape recorder electronic noise floor for microphones from 110° to 160°. The microphone signal below the 20 kHz 1/3-octave band is filtered out, and the gain is increased to boost the "signal-to-noise" ratio of the remaining high frequency signal. For microphones from 110° to 160°, both the filtered and unfiltered signals are recorded on tape. The sound pressure levels for frequencies below 20 kHz are calculated using the filtered signal. The jet noise spectra at a given angle are then obtained by computationally merging these two spectra.



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Figure 25. Acoustic Data Acquisition and Reduction System.

The prime system used for recording acoustic data is a Sangamo/Sabre IV, 28-track FM recorder. The system is set up for wideband Group I (intermediate band double extended) at 120 ips tape speed. Operating at 120 ips tape speed provides the improved dynamic range necessary for obtaining the high frequency/low amplitude portion of the acoustic signal. The tape recorder is set up for ±40% carrier deviation with a recording level of 8 volts peak-to-peak.

During recording, the signal gain is ajusted to maximum without exceeding the 8 volt peak-to-peak level.

Individual monitor scopes are used for observing signal chracteristics during operation. On-line data monitoring was available for this program via a Rockland narrow band analyzer or a General Radio 1921 1/3-octave analyzer with their outputs on display scopes or hard copy via Tektronic plotter.

mentation and Data Room (IDR). The data tapes are played back on a CBC37008 tape deck with electronics capable of reproducing signal characteristics within the specifications indicated for wideband Groups I and II. An automatic shuttling control is incorporated in the system. In normal operation, a tone is inserted on the recorder in the time slot designed for data analysis. Tape control automatically shuttles the tape initiating an integration start signal to the analyzer at the tone as the tape moves in its forward motion. This motion continues until an "integration complete" is received from the analyzer at which time the tape direction is reversed and the tape restarts at the tone in the forward direction advancing to the next channel to be analyzed until all the channels have been processed. A time code generator is also utilized to signal tape position of the readings as directed by the computer program control. After each total reading is completed, the number of tape channels at each point is advar ed to the next reading.

All 1/3 octave analyses are performed on a General Radio 1921 1/3 octave analyzer. Normal integration time is set for 32 seconds to insure good interaction for the low frequency content. The analyzer has 1/3 octave filter sets from 12.5 Hz to 100 kHz and has a rated accuracy of $\pm 1/4$ dB in each band. Each data channel is passed through an interface to the GEPAC 30 computer where the data are corrected for the frequency response of the microphone and

the data acquisition system, corrected to standard day (50° F, 70% RH) atmospheric attenuation conditions using the Shields and Bass model (used for this program), and processed to calculate the perceived noise level and OASPL from the spectra. For calculation of the acoustic power, scaling to other nozzle sizes, or extrapolation to different far field distances, the data are sent to the Honeywell 6000 computer for data processing. This step is accomplished by transmitting the SPL's via direct time-share link to the 6000 computer through a 1200 Band Modem. In the 6000 computer, the data are processed through the Full Scale Data Reduction (FSDR) Program where the appropriate calculations are performed (discussed below). The data printout is accomplished on a high speed "remote" terminal. In addition, the FSDR Program writes a magnetic tape for CALCOMP plotting of the data which will be used in the course of data analysis of the test results of this program.

The detailed FSDR Program flow chart is shown in Figure 26. The asmeasured data are first extrapolated from the measured distance to a common 40 ft arc. This is accomplished by subtracting out both the distance correction (i.e., 20 log (40 ft distance/measured distance)) and the atmospheric attenuation correction over the Δ distance (i.e., where Δ distance = 40 ft - measured distance). Note that the Shields and Bass Pure Tone Method was used for all atmospheric attenuation corrections. The data are then converted to standard day at the 40 ft arc location by adding in the standard day correction (i.e., Δ dB = α amb - α std day). The data are then printed out in tabulated form for SPL (from 250 Hz to 80 kHz), OASPL (based on 250 Hz to 80 kHz), and PWL (for full sphere, over-range 250 Hz to 80 kHz based on lossless data). For this program, data will not be shown below the chamber cutoff frequency of 250 Hz.

The full scale data for standard day at a 40 ft arc will then be extrapolated to a 2400 ft sideline. This is accomplished by subtracting out the distance correction, i.e., 20 log (40 ft distance/measured distance) and the atmospheric attenuation over the distance (i.e., where Δ distance - 40 ft measured distance). The data are then printed out in tabulated form for SPL (from 50 Hz to maximum frequency), OASPL (based on 50 Hz to maximum frequency), PNL (based on 50 Hz to 10 kHz), and PWL (for full sphere, over 50 Hz to maximum frequency but based on losseless data). The maximum frequency in this case depends upon the noise level, since only the positive levels are printed out.

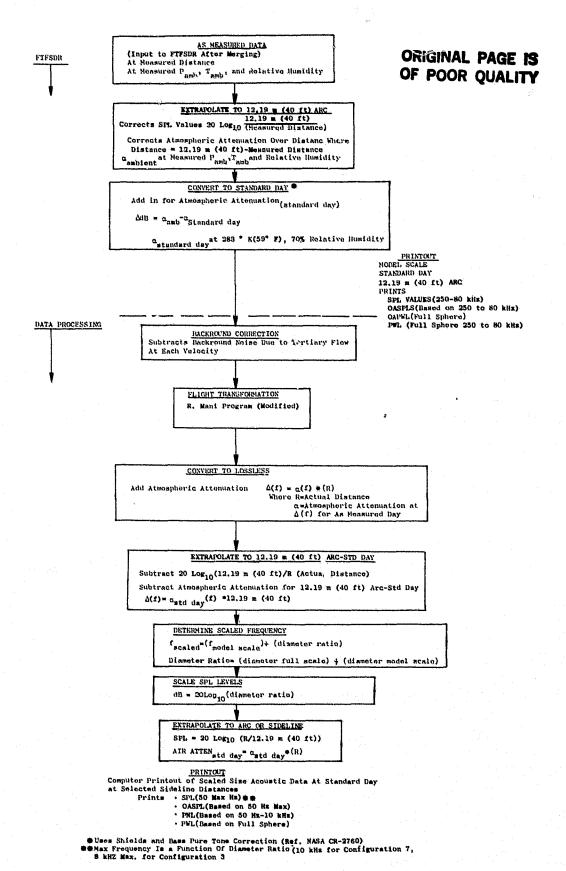


Figure 26. Acoustic Data Processing Flow Chart.

4.2 DESCRIPTION OF THE FLIGHT TRANSFORMATION TECHNIQUE

4.2.1 OBJECTIVE AND CONCEPT

The objective of the General Electric Free-Jet transformation process is to employ far field SPL spectra at various angles to the jet axis (typically for $20^{\circ} \leq \theta_{\rm j} \leq 150^{\circ}$ in increments of 10°) obtained in a free jet experiment and transform it to yield SPL spectra as would be measured in a true moving frame experiment.

The concept employed is that with area ratios of 50:1 or so and with the primary nozzle exhaust plane displaced aft of the free-jet plane sufficiently to permit acquisition of acoustic data in the inlet arc (say up to θ_i = 150°), proper aerodynamic simulation of the effects of forward flight is achieved, but that in terms of the acoustic simulation of the effects of uniform flow over the primary jet plume noise sources, the free jet achieves this only to a limited extent. In other words, the free jet achieves the effect of the right source mix radiating however into an environment that more nearly approaches a static environment rather than the environment of sources shrouded by either a finite or infinite extent of uniform nonturbulent flow. (The basis of several previous investigations has been to assume that a well defined region of uniform, nonturbulent flow surrounds the sources. This well defined region is taken as a doubly infinite cylinder of constant circular section equal to the cross section of the free-jet exhaust plane.). The acoustic sources in a free-jet, of course, do not radiate into a completely static environment and hence some propagation effects of the free-jet flow do have to be accounted for.

Based on the above picture, the broad outline of the procedure adopted is as follows. Defining as the "static" directivity, the directivity pattern (in various frequency bands) that the sources (of the primary jet exhaust plume altered by the effects of relative velocity due to imposition of the free-jet) may be expected to produce if they radiated into a quiescent environment, we first deduce this "static" directivity from the measured free-jet experimental data by correcting the latter for propagation effects of the free-jet. Since the free-jet flow field includes intensely turbulent shear layers through which the sound field of the sources must pass before

it reaches the far field microphones (located in the quiescent ambient), some degree of empiricism (especially for the high frequency sound) is involved in attempting to account for these propagation effects.

Once such a static directivity is extracted, it still remains to deduce what the noise signature of the source distribution would be if the source distribution was not stationary relative to the ambient but moving relative to the ambient at the flight velocity. A multiple decomposition procedure suitable for the broad band jet noise problem which attempts to synthesize the static directivity by ascribing it to a mix of uncorrelated singularities was developed in order to enable the prediction of the flight noise. Once such a decomposition is completed, we simply apply the dynamic exponent applicable to each singularity to derive the flight noise signature.

In summary, the method starts with narrow band directivities from the free-jet experiment in various third octave bands, corrects these directivities for free-jet propagation effects in a frequency dependent manner to retrieve the "static" directivity, synthesizes the "static" directivity by a suitable mix of uncorrelated singularities and finally applies the dynamic effect appropriate to each singularity to predict the flight noise. It is an inherent feature of the method that it works separately with each third octave band directivity pattern. The final flight predictions can then be summed to yield either <code>OASPL</code> or PNL directivities or simply displayed as flight SPL spectra at various angles to the jet axis. (Doppler shift effects on the frequency are fully accounted for).

4.2.2 ALGORITHM DESCRIPTION

A detailed algorithm description is shown in Figure 27.

4.2.3 FURTHER DETAILS

The recommended procedure for transformation of free-jet noise to flight noise consists of first extracting the "basic" directivity from the measured free-jet data and then applying the "dynamic" effects to determine the noise in flight. The "basic" directivity is the directivity that the sources associated with the primary nozzle plume would create, if they

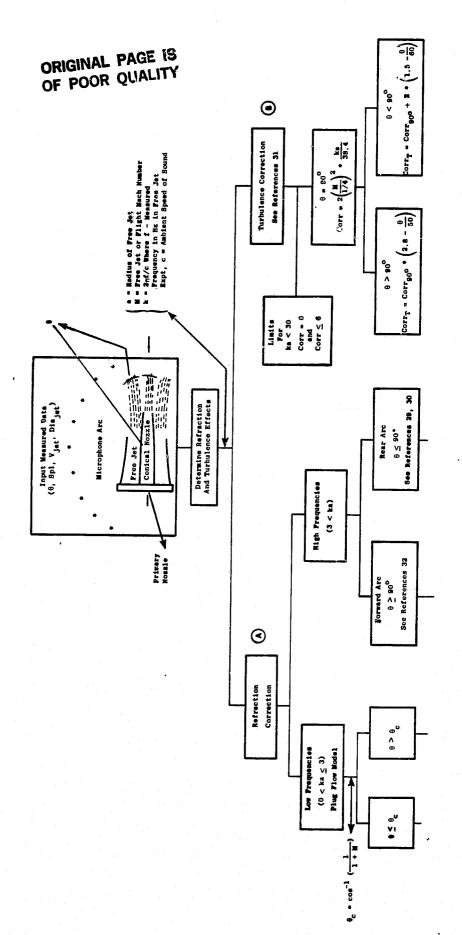
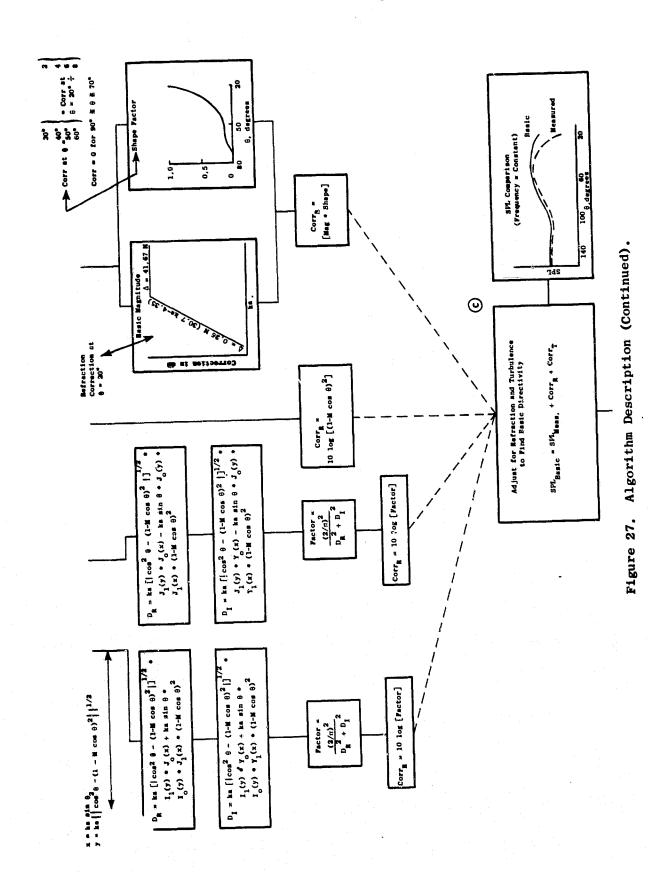


Figure 27. Algorithm Description.

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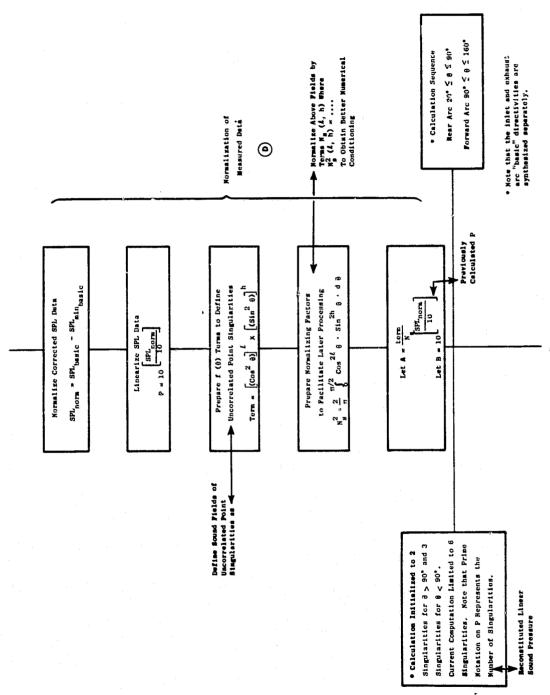


Figure 27. Algorithm Description (Continued).

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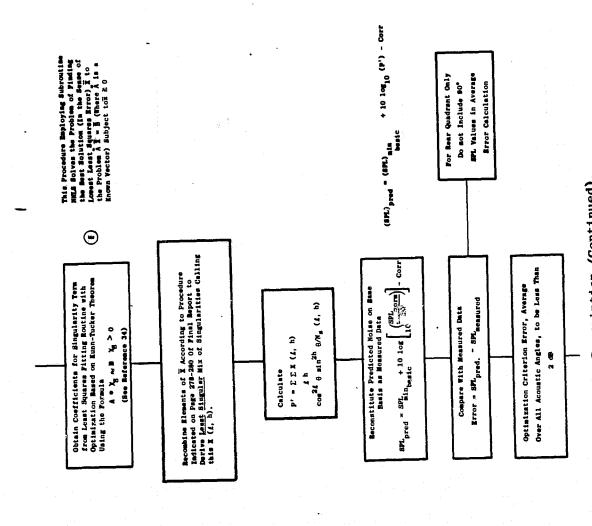
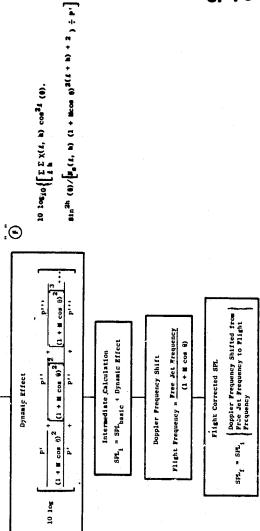


Figure 27. Algorithm Description (Continued).



List of Symbols

		9	M		A Acronym Used to Identify a Uniquiarity Considered Term Acromym Used to Identify a Unique Algebraic Grouping		345	Solution of the	used to Identify the Refraction and/or Turbulence	Numerical Value Varies with Lavel of Singularity Considered Mach Fumber = (Free Jet Velocity) + (Ambient Speed of Sound) Normalizing Factor, Function of Singularity Libear Sound Pressure 0.0002 Microbars Subscript for Refraction Correction Singularity Subscript Sound Pressure Lavel = 10 log (P ² /P ² _{ref}) Subscript for Turbulance Correction Acronym Used to Identify a Unique Algebraic Grouping Bessel Panction Argument, x = ka sin θ A Vector Derived from Least Squares Fitting, Function of Singularity Bessel Function argument, y = ka [cos ² θ - (1 - M cos θ) ² Bessel Function of the Second Kind of Order m, Argument x Angle from the Jet Axis Referred to the Exhaust Critical Angle that Defines the Jet Zone of Silence = cos ⁻¹ (1/1 + M)	A MAN HAM WE	An Input Matrix to the Least Squares Pitting Procedure An Input Vector to the Least Squares Pitting Procedure An Acronym used to Identify the Refraction and/or Turbulence Correction Fersal Root of Denominator Term in Solution of the Sound Pressure for the Plug Frow Model Fressure for the Plug Frow Model Sound Pressure for the Plug Frow Model Sound Pressure for the Plug Frow Model Subscript for Filght Corrected Spt. Maserical Value Varies with Lovel of Singularity Considered Subscript on Spt. to Identify an Intermediate Calculation Modified Bassel Function of the Pirst Kind of Order n, Argument in is x Modified Bessel Function of the Pirst Kind of Order n, Argument in is y Bessel Punction of the First Kind of Order n, Argument in is y Bessel Punction of the First Kind of Order n, Argument in is y
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Figure 27. Algorithm Description (Concluded).

radiated into a static rather than the free-jet environment.

Two phenomena are involved that change the directivity of the noise radiated by the sources associated with the jet plume when the jet is exhausting into a free-jet environment as opposed to a static environment.

These are

a. Refractive Effects of the Free-Jet Flows

To deduce the refractive effects of the free-jet flow, the following procedure is adopted.

 At low frequencies (k_o a < 3), the plug flow model solution for a point pressure source is used.

$$p' \propto (1 - M_{f_1} \cos \theta)^{-2}$$

2. At high frequencies $(k_0 a > 3)$, the asymptotic high frequency solution for a pressure source is used

$$p' \sim (1 - M_{fj} \cos \theta)^{-1}$$

At these values of the frequency parameter $(k_0 a < 3)$, the exhaust arc was used to deduce the refractive effect following the method due to Schubert (Reference 7). In this method,

• First the refractive dip in dB along the jet exhaust axis is determined as being proportional to the product of the jet Mach number and the frequency parameter.

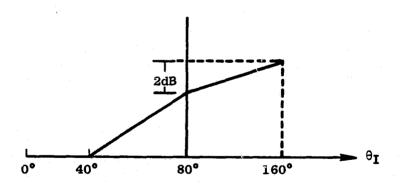
$$R_{\theta_{i}} = 0^{\circ}$$
 $M_{fi}k_{o}a$

- Then, a shape factor that is essentially Mach number and frequency independent is used to determine the refractive dip at other angles. For the range 3<k a<6, Ribner's results were used with a linear extrapolation in the range 6>k a>1.25.
- Based on experimental data, the refractive dip in the exhaust arc for k_0 a>6 was considered independent of k_0 a, but still linearly proportional to M_i .

b. Absorptive Effects of the Fine Grain Turbulence in the Shear Layer of the Free-Jet

This relates to the fact that fine-grained turbulence in the shear layer of the free-jet can absorb sound, especially at high frequencies. This correction is based on Crow's theory that states that the effective absorption coefficient is proportional to the frequency, distance the sound traveled in the shear layer, and the square of the Mach number.

Based on the path length that the sound has to traverse, the absorption coefficient is assumed to vary with $\theta_{\tilde{1}}$ as shown in Figure below



The absorption was calculated assuming an eddy viscosity $= 70~\mu$ for M = 0.25 and f = 50 KHz. This yields corrections for k a>30. The actual expressions used were

Corr_T
$$\theta_{I} = 90^{\circ}$$
 $\theta_{I} = 90^{\circ}$ $\theta_{I} = 90^{\circ}$ for ka < 30

where M = Free Jet Mach number

$$k = \frac{2 \pi f}{C_0}$$

a = Radius of the Free Jet

$$\begin{vmatrix}
\text{Corr}_{T} & & = \text{Corr}_{T} & & \times (1.5 - \frac{180 - \theta_{I}}{180}) \\
\theta_{I} > 90^{\circ} & & 1
\end{vmatrix}$$

$$\begin{vmatrix}
\text{Corr}_{T} & & \text{Corr}_{T} \\
\theta_{T} < 90^{\circ} & & \theta = 90^{\circ}
\end{vmatrix}$$

$$\times (2.8 - \frac{180 - \theta_{I}}{50})$$

From the measured free-jet data, the refraction and turbulences absorption corrections are added to obtain the "basic" directivity of the sources.

The basic directivity obtained above is assumed to be generated by a set of singularities F_0 , F_x , F_y , etc., such that the sound field is a solution to

$$\nabla_p^2 + k_0^2 p = Fo \, \delta(x) \, \delta(y) \, \delta(z) + F\alpha'(x) \, \delta(y) \, \delta(z) + Fy \, \delta(X) \, \delta(y) \, \delta(z)$$
 where F_0 , F_x , F_y are mutually uncorrelated, so that they contribute to the far field only additively. As the mean square pressure of any singularity is symmetric about both θ = 0° and θ = 90°, the inlet and exhaust are are synthesized separately.

The procedure adopted to determine the dynamic effect is as follows:

- From the "basic" directivity pattern, obtain the normalized SPL's based on the least SPL in both the forward and aft quadrants.
- 2. Determine the linearized levels using

$$\frac{1}{p^2} = 10 \frac{\text{SPL-SPL}_{min}}{10}$$

- 3. Decide on a level of fitting using the criterion that the data ought to be reconstructed to within an error of 2 dB on the average. Then, assuming that the data ought to be reconstructed with the least singular distribution of uncorrelated sources possible, the problem simplifies to one of solving a least squares problem of the type find \bar{x} to minimize $|\bar{r}| = (A\bar{x} b)$ subject to nonnegative constrain \bar{t} $\bar{x} \geq 0$. This done using an algorithm based on the Kuhn-Tucker theorem of optimization theory.
- 4. The singularities obtained using the Kuhn-Tucker theorem are then combined to obtain the least singular decomposition of the sources.
- 5. The appropriate dynamic effect is then applied to each singularity type to determine the correction that is applied to the measured free-jet data corrected for refraction and turbulence absorption. If the mean square of the sound pressure is obtained by adding the singularities as

$$P_{\theta}^{'2} = F_{o} c^{6} + F_{1} c^{4} s^{2} + F_{2} c^{2} s^{4} + F_{3} s^{4}$$
where $C = \cos \theta$

 $S = Sin \theta$

the dynamic effect is calculated using the relation

Dynamic Effect = 10
$$\log_{10} \frac{P_F^{'2}}{P_S^{'2}} = 10 \log_{10} \frac{\frac{F_0C^6}{k^8} + \frac{F_1C^4S^2}{k^8} + \frac{F_2C^2S^4}{k^8} + \frac{F_3S^4}{k^6}}{P_S^{12}}$$

where
$$k = (1 + M_{fi} \cos \theta)$$

6. The levels are then corrected to

7. Doppler frequency shift results in the flight frequency given by

$$f_{flight} = \frac{f_{free jet}}{(1 + M_{fi} \cos \theta)}$$

8. Hence SPL = SPL doppler shifted from free-jet to flight.

Thus, using the above transformation, the free-jet data can be transformed into flight data. Further discussion of this procedure is found in Reference 2.

4.3 LASER VELOCIMETER DATA ACQUISITION AND REDUCTION

The laser velocimeter system used to measure the jet plume mean velocity and turbulence levels was developed under a USAF/DOT-sponsored program and reported in detail in References 8 and 9. The general features of the systems are described below.

The basic optical system is a differential Doppler, backscatter, single-package arrangement mounted on a traverse platform as shown in Figure 28. This remotely actuated platform allows motion in three directions viz., in and out, sideways, and axial and the corresponding traverse capabilities are 32 in. (0.813 m), 32 in. (0.813 m) and 240 in. (6.1 m). Resolution was $\pm 1/16$ in. (0.1588 m) for each direction except for the axial travel, which has a resolution of $\pm 1/8$ in. (0.3175 m).

Aluminum oxide (Al_2O_3) powder of a nominal size of 1 micron diameter was used for seeding by injection into the inner, outer, and tertiary flows. The white appearance of the coannular model and tertiary in Figure 28.was caused by the seeding.

The laser velocimeter signal processor used is a direct-counter (time domain) type. Turbulent velocity probability distributions (histograms) were

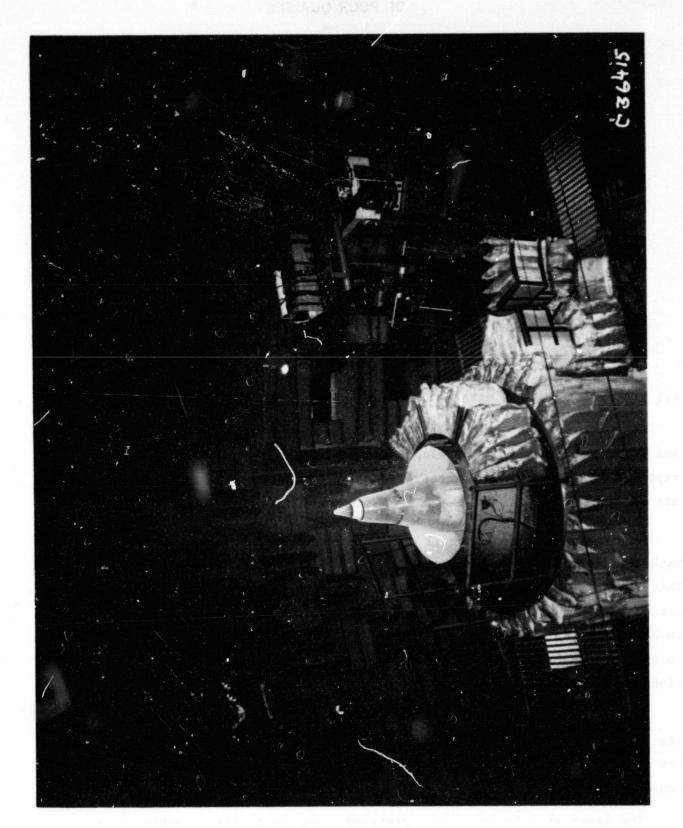


Figure 28. Laser Velocimeter Installed in the Anechoic Chamber.

recorded by a 256-channel pulse-height analyzer (NS633) and shown on an X-Y plotter. Both mean and rms turbulent axial velocities at discrete points were calculated using a PDP-11 computer with the tabulated data printed out on-line.

4.3.1 Basic Idea for LV Measurements

The concept of using laser velocimeter measurements for obtaining the mean and turbulent velocity profiles may be described as follows. Two beams of monochromatic light intersect at a point in space and set up a fringe pattern of known spacing (see Figure 29). The flow is seeded with small particles which pass through the measuring volume; the light scattered from the particles is collected, and the laser signal processor measures the time it takes for the particles to pass through each fringe. Knowing the distance and time for each validated particle enables the construction of the usual histogram (see insert on Figure 29). Then, by statistical techniques, the mean value (which corresponds to the mean velocity) and standard deviation (which corresponds to the turbulent velocity) are constructed. Although the principle of measurement is easy, the practical aspects of designing an electronic parocessing unit to monitor valid particles is of no small consequence. Investigators have had great difficulty performing measurements even in low velocity jets, and the extension to heated supersonic jet measurements represents a major achievement. The method of calculation used to obtain the mean velocity and turbulent velocity from laser velocimeter measurements is described below.

4.3.2 Histogram

A histogram is an estimate of the first-order probability density of the amplitude of a given sample. To obtain a velocity histogram, the time-dependent laser velocimeter velocity, V(t), is accumulated and divided into classes bounded by values of velocity increments V_i . For each independent sample of velocity, a class interval is formed such that $V_i \leq V(t) \leq V_{i+1}$. During a measurement period, k_i number of velocity samples are accumulated in each sample class V_i . From the total sample of measured velocity points, the histogram is constructed as shown in Figure 29. The mean velocity and turbulent velocity derived from the histogram are obtained as described below.

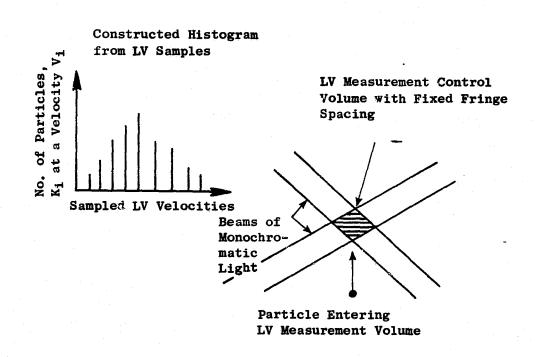


Figure 29. Schematic of Laser Velocity Measurements.

4.3.3 Mean Velocity

The mean velocity of the jet, \overline{v}_j , obtained from the discrete velocity sample is calculated by:

$$\bar{v}_{j} = \sum_{i=1}^{\infty} \left(\frac{v_{i+1} + v_{i}}{2} \right) \frac{k_{i}}{N}$$

All Class Intervals

where

ki is the number of velocity samples in the class interval

N is the total number of velocity samples (Σ k_1) in the histogram

4.3.4 Turbulent Velocity

To obtain the axial turbulent velocity, u', from the sampled data contained in the histogram, the standard square root of the statistical variance is performed. This calculation is performed using the following equation:

$$u' = \left[\sum_{\substack{\text{All Class } N\\ \text{Intervals}}} \left(\frac{v_{i+1} + v_{i}}{\frac{2}{1}} - \bar{v}_{j} \right) k_{i} \right]$$

4.3.5 Statistical Errors for LV Mean and Turbulent Velocity Measurements

With any large data sample, as obtained through the collection of velocity samples in a laser velocimeter historgram, guidelines for estimating the accuracy of each measurement are required. Tables II and III provide estimates of the percent error obtained for a mean velocity or turbulent velocity LV measurement.

Table II. Estimated Percent Error in the LV Measurement of Mean Velocity with 95% Confidence.

N	u'/⊽;					
	0.2	0.1	0.05	0.025		
10	14.1	7	3.5	1.76		
20	9.3	4.7	2.3	1.20		
30	7.4	3.7	1.9	0.93		
40	6.3	3.2	1.6	0.80		
60	5.0	2.6	1.3	0.65		
120	3.6	1.8	0.9	0.45		

Table III. Estimated Percent Error for LV Turbulent Velocity Measurements with 95% Confidence.

N	Percent Error
20	31.5
40	21.8
60	17.8
120	12.6
240	9.12
480	6.45
960	4.56
5,000	2.0
25,000	0.89

Table II lists the percent error for a 95% confidence statement of mean-velocity measurement as a function of the total number, N, of velocity samples contained in the histogram, and the turbulence level $\mathbf{u}'/\bar{\mathbf{v}}_j$. Table III gives the percent error for a 95% confidence statement of the turbulent velocity estimate as a function of N, the total velocity sample. As can be seen from Table II, a fairly small sample of velocity measurements is required to obtain a good estimate of the mean velocity. For the turbulent velocity, the number of data samples required for a good estimate increases substantially. The usual number of samples obtained with the General Electric laser velocimeter during a routine data-taking measurement performed during this program is approximately 1000 samples. For simple and quick diagnostic-type information, this amount of samples is sufficient. For more advanced measurements, such as turbulence spectra or two-point cross correlations, many more data samples are required and are currently obtained on a routine basis.

4.3.6 LV TRAVERSES FOR MEAN VELOCITY PROFILES

(. . .

In addition to the above described stationary mode of LV operation for the determination of both mean and turbulent velocities at discrete points, the laser velocimeter is operated also in a traversing mode to obtain continuous profiles of mean velocities. These traverses are possible along any of the three LV axes. During these traverses, the data describing the velocity levels and the location of the measurement volume are recorded continuously on an X-Y plotter. The traversing speeds are adjusted as well as traverses repeated for obtaining well defined mean velocity profiles. While exact sampling rates during these traverses were not recorded in any way, an estimated rate of ~250 samples per inch of traverse is felt needed for a well defined smooth profile. Section 6.0 shows copies of the diagnostic mean velocity traverses taken for this program.

4.4 AERODYNAMIC DATA ACQUISITION AND REDUCTION

The facility operating parameters are monitored during testing at the control console to ensure that prescribed facility limits are not exceeded and for setting test point conditions.

The core and fan discharge pressures are measured from a single element on their respective rakes and are used for setting the desired nozzle pressure

ratios. These parameters also are routed through Dymec scanning system and recorded along with nozzle performance data by the aerodynamic data handling (ADH) system.

Facility temperatures are monitored at the control console using a Doric multichannel temperature indicator. The unit has a 24-channel capability and is designed for use with Type K thermocouples (chromel-alumel). It is used for safety monitoring and setting test point temperatures for the dual-flow system, which uses Type K temperature rakes. A system schematic is shown on Figure 30.

4.4.1 Nozzle Pressure and Temperature Measurements

A critical parameter used in evaluating acoustic test results is nozzle exhaust velocity. Determination of this velocity depends on an accurate determination of the exhaust temperature and pressure which, in turn, depend on adequate sampling across the stream to account for profile effects. Special multielement rakes have been designed for use on the single- and dual-flow systems.

The dual-flow system uses four rakes, two on each stream, each having three pressure and three temperature elements with spacing of the elements corresponding to centers of six equal area annular segments of the flow stream. These rakes use shielded Type K thermocouples (chromel-alumel) that have a recovery factor very close to unity.

Pressure measurement accuracy is controlled by the accuracy of the transducer used for the measurement. The scanivalve transducers used for nozzle performance measurements are rated at 0.1% of full-scale range.

4.4.2 Performance Data Processing

Aerodynamic parameters are calculated based on the temperature and pressure information acquired. The input information for nozzle performance consists of ambient pressure (P_0) , nozzle discharge total temperature (T_T) , and nozzle discharge pressure (P_T) . For the case of dual-flow, similiar parameters are required for the secondary stream, likewise for the tertiary stream.

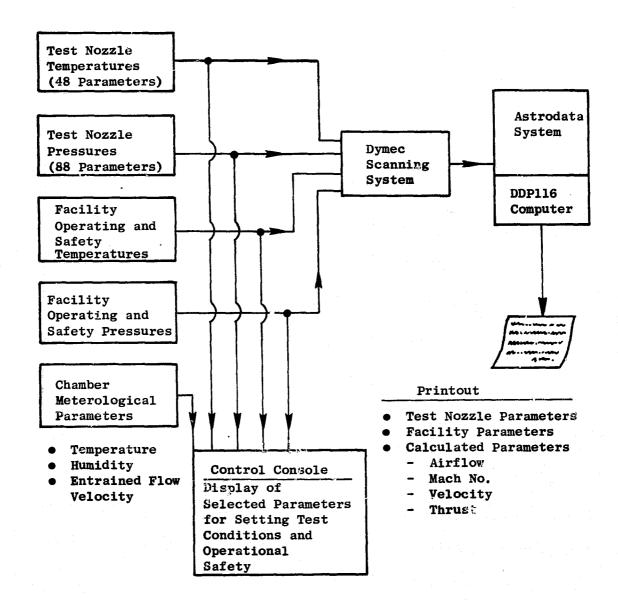


Figure 30. General Electric Anechoic Chamber Aerodynamic Data Processing System.

Output of the processing program consists of tabulations of the individual input parameters with their identification, averages of similar parameters (i.e., P_T rake average), and calculated parameters as indicated in the following paragraphs:

1. Gamma

For
$$T_S \le 440^{\circ}$$
 K (788.3° R); $\gamma = 1.4$
For $T_S > 440^{\circ}$ K (788.3° R); $\gamma = \frac{2.23708}{(T_S)^{0.070271}}$
with T_S in ° R

2. Isentropic or Ideal Mach number

$$M = \left(\frac{2}{\gamma - 1}\right)^{1/2} \left(\binom{P_{T}}{P_{o}}\right)^{\frac{\gamma - 1}{\gamma}} - 1^{1/2}$$

$$\frac{T_{T}}{T_{S}} = 1 + \left(\frac{\gamma - 1}{2}\right) M^{2}$$

$$T_{S} = T_{T} / \left(T_{T} / T_{S}\right)$$

where T_S is initially assumed equal to T_T . Starting with the gamma calculation, the above calibrations are repeated by an iteration procedure until the difference in T_S between iterations is <1.0.

3. Local Sonic Velocity

$$c = \sqrt{\gamma g RT}_S$$

4. Ideal Velocity (fully expanded)

$$V = M c$$

5. Calculated Ideal Thrust

$$F = V W/g$$

4.4.3 Humidity and Temperature Measurement

One of the parameters necessary for correcting acoustic data for atmospheric absorption is the humitidy content of air through which the signal is propagating. Since varying nozzle operating conditions may cause changes in the chamber environment during the course of testing, a means of remote humidity readout is required. This is accomplished through the Hygrometrix Model 8501 Relative Humidity System. This system utilizes a Xeritron sensor that is an assembly of hygromechanical crystallite structures and piesoresistive silicon strain gages on a common substrate. The sensing element responds to changes in relative humidity by a dimensional change reflected in the strain gage resistance with its resistance being proportional to the relative humidity.

Temperature at the humidity sensor location is measured using a Type K thermocouple. Readout of both temperature and relative humidity is provided at the cell control panel and is logged for each test point. Provision exists for humidity readout from any of the microphone positions; however, the sensor is mounted at the 40° microphone position, as this location represented a good approximation of mean chamber conditions as determined from the environmental survey. The manufacturer's stated accuracy for this system is ±2% over the range of -40° C to 1250° C.

5.0 TEST POINT DEFINITION

The following tables define the measured aerodynamic test conditions for both the laser velocimeter and the acoustic test points taken on each model.

The aerodynamic test matrix for the LV tests is shown in Table IV. The outer and inner flow aerodynamic conditions shown were obtained from on-line data since no data were taped during LV testing. In addition to the outer and inner conditions, the "mixed" conditions are also tabulated. These "mixed" conditions were calculated assuming that the outer and inner streams are perfectly mixed together. The resulting mixed velocity (V^M) and total temperature (T_T^M) are defined as:

$$v^{M} = \frac{v^{o}w^{o} + v^{i}w^{i}}{w^{o} + w^{i}}$$
,

and

$$T_{T}^{M} = \frac{T_{T}^{o} W^{o} + T_{T}^{i} W^{i}}{W^{o} + W^{i}}; \text{ see the definition of symbols following.}$$

The free jet velocity $({\rm V}_{\rm a/c})$ was obtained directly from LV measurements at the exit plane of the scale model nozzle. The total temperatures of the inner and outer streams and the free jet were measured using the total temperatures and the pressure ratio of the flows determined through total pressure rakes. Using these measurements, the velocities of the flows were calculated using isentropic gas dynamic relations.

The acrodynamic test matrix for the acoustic tests is shown in Tables V through XII for Models 1, 1A, 2, 3, 4, 5, 6 and 7, respectively. The aerodynamic conditions were obtained from taped data. The "mixed" conditions were calculated as described above. The free jet velocity $(V_{a/c})$ was determined by subtracting the velocity reduction from the measured value. The free jet velocity reduction was caused by the model area reduction between the free jet nozzle exit station and model nozzle exit station. This free jet velocity correction method is detailed in the Final Report. In addition to the aerodynamic conditions, both model scale and scaled acoustic data are tabulated. The nominal area of the full size engine is 1400 in. The definition of symbols used in these tables are as follows:

DEFINITION OF SYMBOLS

Pr Measured nozzle pressure ratio
V Ideal nozzle velocity, ft/sec
Tr Measured nozzle total temperature, ° R
T Ideal calculated static temperature, ° R
W Ideal calculated weight flow, lbm/sec
o Designates outer nozzle
i Designates inner nozzle

Table IV. Aerodynamic Test Matrix for Laser Velocimeter Tests.

					Outer				I	pner				xed	
Model	Test Point	Va/c ft/sec	Pr	V ⁰ ft/eec	TT R	T ^O	yo lbm/sec	Př	y ⁱ ft/sec	. T.T.	.TR	wi lbm/sec	yH ft/sec	.TR	v ⁱ /v ^o
1	101	0	3.17	2416	1708	1263	10.52	3.19	1636	790	567	2.16	2283	1146	0,677
	101A	ю.	1.00	0	592	592	0	3.21	1635	785	563	2.18	1635	563	
	103	400	3.17	2427	1722	1274	10.47	3.19	1633	787	565	2.17	2291	1155	0.673
	113A		1.00	0	571	571	0 .	1.62	1104	784	683	1.08	1104	683	
	116	0	2.43	2175	1735	1381	8.00	2.08	1348	801	650	1.40	2051	1276	0.620
	119A	0	2.26	2092	1733	1405	7.44	1.02	262	1013	1005	0.18	2050	1403	0.125
	1505	0	1.45	1447	1720	1567	4.53	1.45	898	666	599	1.01	1348	1393	0.621
	1506	400	2.45	1453	1733	1579	4,51	1.43	899	693	626	0.97	1355	1413	0.619
14	101A	0	3.19	2453	1722	1272	10.54	3.22	1648	789	565	3.09	2270	1114	0.672
	1164.	0	2.45	2184	1721	1366	7.96	2.20	1338	735	587	2.15	2003	1511	0.613
2	201	U	3.17	2435	1733	1283	10.44	3.24	1629	774	553	3,10	2250	1118	0.669
	203	400	3.18	2425	1716	1268	10.52	3.20	1630	782	561	3.04	2247	1112	0.672
	204	0	3.79	2551	1.688	1186	12.65	3.23	1638	784	561	3,06	2372	1069	0.642
	206	400	3.76	2559	1707	1203	12.48	3.24	1635	780	557	3.08	2376	1080	0.639
	210	0	2.28	2088	1710	1384	7.56	2.09	1264	700	567	2.10	1909	1210	0.605
	212	400	2.28	2084	1704	1379	7.57	2.11	1265	693	560	2.13	1904	1203	0.607
	213	0	3.15	2430	1734	1286	10.37	1.58	1097	817	717	1.43	2268	1229	0.451
	215	400	3.18	2429	1722	1273	10.50	1.61	1104	789	696	1.49	2265	1213	0.455
	216	0	3.79	2551	1689	1187	12.65	1.59	1098	808	708	1.45	2402	1151	0.430
	219	0	2.27	2085	1713	1388	7.52	1,39	1092	800	701	1.46	1924	1283	0.524
	221	400	2.29	2089	1704	1377	7.61	1.61	1094	783	683	1.50	1925	1270	0.524
	222	0	2.42	2165	1727	1376	7.98	2.18	1324	731	585	2.14	1987	1213	0.612
	222A	0	2.45	2184	1713	1360	8.12	2.18	1334	739	591	2.13	2000	1510	0.611
3.	301	0	3.17	2434	1732	1282	10.44	3.22	1634	782	560	3.10	2250	1119	0.671
	303	400	3.17	2433	1731	1281	10.44	3.21	1634	784	562	3.09	2251	1119	0.671
5	513	0	3.14	2428	1735	1288	11,67						2428	1288	
	515	400	3.19	2431	1720	1270	11.90						2431.	1270	
6	3009R	0	2.26	2088	1726	1401	4.64	1.37	795	611	558	2.26	1664	1145	0.361
	3011	400	2.23	2070	1722	1402	4.58	1.39	796	587	534	2.37	1636	1127	0.385
	3015R	0	2.78	2292	1704	1306	5.74	1.63	1438	1327	1156	1.98	2073	1278	0.628
	3016	300	2,73	2290	1727	1332	5.60	1.63	1426	1294	1136	2.00	2063	1290	0.623
	3017	400	2.74	2293	1726	1329	5.62	1.63	1431	1303	1144	1.99	2068	1291	0.624
	3018	0	2.70	2285	1736	1343	5.52	1.96	1630	1259	1049	2.3 *	2082	1258	0.713
	3020	400	2.70	2281	1730	1338	5.53	1.95	1622	1255	1047	i	2078	1254	0.711
7	7009	0	2,25	2085	1730	1406	7.46	1,48	868	592	529	2.59	1772	1195	0.416
	7011	400	2.25	2090	1737	1412	7.45	1.48	869	593	530	2.59	1775	1199	0.416
	7015	0	2.73	2295	1735	1338	9.04	1.83	1406	1036	874	2.54	2100	1244	0.613
	7016	300	2.71	2287	1734	1340	8.98	1.83	1411	1043	881	2.53	2094	1247	0.617
	7017	400	2.70	2292	1746	1351	8,91	1.83	1410	1042	880	2.53	2097	1255	0.615
	7018	0	2.67	2269	1729	1341	8.86	2.73	1643	901	676	4.08	2072	1134	0.724
	7019	300	2.68	2267	1721	1333	8.91	2.714	1650	905	679	4.08	2073	1130	0.728
	7020	400	2.67	2274	1736	1347	8.84	2.78	1644	888	663	4.18	2071	1129	0.723

v1/v0 ጟ. Mixed ۳. ۳ 3.1949 3.14472 2.14682 2.14682 1.08588 1.08588 1.08588 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1863 3.1 3.1619 2.94719 2.94528 1.94528 1.94528 3.74832 3.7484 2.2759 2.2759 2.42759 2.42759 2.42759 OLH Outer ٠. × 1723 1723 1723 1693 1693 1693 1693 1759 1728 OLH. ft/sec Va/c ft/sec Test

Aerodynamic Test Matrix for Acoustic Data, Model

Table V.

AREA MODEL SIZE - INNER = 2.47 , OUTER = 18.05

v¹/v Aerodynamic Test Matrix for Acoustic Data, Model 1A. 2239 2274 2274 1627 1627 1627 1929 1929 2376 2667 2667 2667 2663 2674 2674 4 3.1941 2.2773 2.2773 2.2773 1.8384 1.8384 3.1938 2.1884 2.1422 2.1284 2.1284 1.7187 1.7187 Inner ₹, 3 3.2311 2.2311 2.2311 2.2316 2.2316 2.2316 2.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3.2316 3. O_LH Table VI. Outer ٠. × 2554 25564 25564 2116 2116 2177 2157 2267 2426 2426 2426 2426

AREA MODEL SIZE - INNER = 3.50 , OUTER = 18.

*1/v UT 1bm/sec 98977 1118 11118 11118 5279 6293 6293 6866 2322 2322 2322 2313 8888 8888 89112 7448 4448 4537 1155 3337 ***** 11117 11114 11114 11114 11166 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 11176 Hixed ጜ. 작다**.** @@@@@@@QQQQQQ 4 Inner ۳.۳.۳ ┺ 3 3.1553 3.1553 3.1553 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3.1655 3. OL H Outer 1273 1267 11085 11183 11183 11183 11183 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11195 11 ٠<u>.</u> . Va/c ft/sec Test

Model.

Acoustic Data,

Matrix for

Test

Aerodynamic

VII.

Table

AREA MODEL SIZE - INNER = 3.45 , OUTER = 18.6

1112 1014 1014 1014 1007 11007 11176 11176 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 11177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 117 1ba/sec ٦, up 1bm/sec Outer 1278 11268 11268 11287 11287 11287 11388 11388 11388 11388 11388 11388 11388 11388 11388 11388 11388 11388 . . 9.4. 8 Va/c ft/sec Test

Acoustic Data,

Matrix for

Test

Aerodynamic

Table VIII.

EA MODEL SIZE - INNER = 3.5% , OUTER = 18.0

Inner Outer

Aerodynamic Test Matrix for Acoustic Data, Model 4,

Table IX.

AREA MODEL SIZE - INNER = 9.56 , OUTER = 18.8

*1/0 WT 1bm/sec 22.7453 22.7453 22.75223 22.75223 22.75223 22.75223 23.7523 23.753 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23.7523 23. ເດ Aerodynamic Test Matrix for Acoustic Data, Model 13067 13067 13067 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 13119 Mixed 6999 6999 6999 6999 6999 6999 2416 2422 2546 2556 2556 2556 1219 1213 ft/sec 1bm/sec 74 Inner TH. - i- a ft/80c 7 υο 1bm/sec Table X. 2.7463 2.7463 2.5463 2.5139 2.5139 2.5324 2.1539 2.1539 2.9482 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3.1694 3. Outer 11299 1131907 1131907 1131907 1131907 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 11325 1132 1699 1699 1676 1676 1676 1675 1672 1672 1662 QH. 1685 1618 1686 2368 2363 2364 5 Va/c ft/sec

NREA MODEL SIZE - INNER = 6.00 , OUTER = 20.38

v1/vg 3.9.9893 2.9.9893 2.9.9893 2.9.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 2.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 3.0.9893 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Va/c ft/sec 299 388 298 384 298 389 382 384 299

Areodynamic Test Matrix for Acoustic Data, Model

Table XI.

:A MODEL SIZE - INNER = 5.85 , OUTER = 11.2;

v¹/vo 3 Mixed Aerodynamic Test Matrix for Acoustic Data, Model Inner 1421 1652 1744 1746 1746 1746 1316 1316 1316 1652 1316 1652 125 22122 22122 22122 22128 چ Table XII. Outer <u>.</u> " 2184 2287 2275 2283 2298 2291 2291 2291 2291 2291 2076 2080 2100 2100 1710 1694 Wa/c ft/sec

AREA MODEL SIZE - INNER * 5.81 , OUTER = 18.0

()

Model 7 (Concluded)

Acredynamic Test Matrix for Acoustic Data,

Table XII.

۲, Ę., ۳.۳.[#] Outer 2002 2002 2002 2002 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 2003 ٠. « Ve/c ft/sec

6.0 TEST RESULTS

6.1 ACOUSTIC TEST RESULTS

In this section, the measured acoustic far field data are presented for each test point defined in Section 5. The acoustic far field data consist of 1/3 octave band sound pressure levels at angles to the inlet from 40° through 160° in 10° increments. The power level spectra are also presented along with the calculated OASPL and PNL at each angular location. Three different tabulations of the acoustic far field data are presented for each test point. The first table shows the "Untransformed Model Sound Pressure Levels" (i.e., as-measured SPL data) on a 40 ft arc. Only the data above the anechoic chamber cutoff frequency of 250 Hz are shown. The second table shows the "Flight Transformed Model Sound Pressure Levels". Both the refraction and turbulence corrections are employed in the flight transformation. The third table shows the "Flight Transformed, Scaled, and Extrapolated Sound Pressure Levels" for a nozzle of area 1400 in. 2 at a 2400 ft sideline. In addition to the OASPL, the PNL, and PNLT (i.e., tone corrected PNL) are shown.

A detailed description of the three types of tabulations is presented in Tables XIII through XV with all the key parameters identified. These tables are self-explanatory. The acoustic test results are presented in Sections 6.1.1 through 6.1.8 for Models, 1, 1A, 2, 3, 4, 5, 6, and 7, respectively.

The measured SPL data is corrected to standard day conditions (i.e., $T_{amb} = 59^{\circ}$ F and relative humidity = 70%) from the actual ambient temperature and relative humidity conditions of the anechoic chamber by applying the Bass and Shields air attenuation model.

Table XIII. Sample Data Sheet.

UNTRANSFORMER BB.O DEG. F., 70 PERC IDENTIFICAT AGG. BG. 100. 100. 100. 100. 100. 100. 100. 10

Sheet.
Data
Sample
XIV.
Table

DIAMETER (IN) TURBULANCE CORRECTION - YES

Table XV. Sample Data Sheet.

FIIGHT TRANSEGRMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 69.0 DEG. F., 70 PERCENT R.H. STD. DAY, SG 2400.0 FT. SL

		- e u	2	IDENTIFICATION	ENTIFICATION .	14.	J-ZERRFMODL FROM INLET.	X01016 DEGREES	9 8		PunoS-L		Power (1/3 Octave Band)	
Octave	Band Frequency	cy 70.		90. 1	100. 11		. 130.		160.	160.	Level			
3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	Flight Transfor Engine Using Di Mentioned Below line Distance.		led Mode] meter Ra and Exti	Dat jio apol	65 ⊑	a Scaled to a Full Size and Frequency Shift ated to 2400 Feet Side-ull Size Engine of Model	a Full Size cy Shift O Feet Side-	o			ORIGINAL PAGE IS OF POOR QUALITY			
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Shift = 10 log10 Frequency Shift Indicates the Frequency is Shifted I	Shift Shift ency is	= 10 log ₁₀ X Indicates the		X Diameter the Number of	of of	g t	unded O	ff to N	Rounded Off to Nearest Integer ave Bands	Integer			
10000000000000000000000000000000000000	Overall Sound Pressure Le Perceived Noise Level Tone Corrected Perceived	ressure Level Perceive	Level	e Leve)		98	FRECUENCY		e-					
79	TEST DATE LOCATION	05-0 04-0	7-76 ANECH CH		TAPE NO. AERO, RDG.	NO. N291 IDG. ADHO41	1 041	I ALPHA PARB	SB59 29.6938	! !	TAMS 16.88 RELHUM 43.40	20		
:35EL TE	TEST POINT	ACOUSTIC		RANGE				SIZE				FREE-JET SPEED	160	

6.1.1 Measured Acoustic Data for Model 1

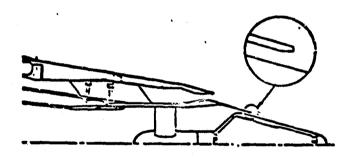
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 $R_r^0 = 0.853$ C-D outer nozzle

 $R_{r}^{i} = 0.953$ C-D inner mozzle

 $A^{1}/A^{0} = 0.137$

with struts in outer flow



											OI OI	RIG F F	iiN PO(AL	. F	PAG	E	IS IY						***	FPS)		Control of the statement of the statemen
																								1 6 .8 8 43.40	FREE-JET SPEED , M/SEC (0,		$\label{eq:constraint} define the definition of the definition $
PRESSURE LEVELS CORRECTED FOR RCENT R.H. STD. DAY, SB 40	IDENTIFICATION - MÖDEL FJ-ZERRFMODL X01010 BACKGRÖUND	ANGLES MEASURED FROM INLET, DEGREES	40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160,				87.8 92.1 91.1 91.4 91.7 94.3 96.5 98.9 103.6 108.9 113	657.8 507.7 517.4 517.7 53.6 53.7 567.5 103.4 1117.0 1157.8 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.0 1157.	93,1 94,9 95,7 95,4 96,5 98,9 99,5 103,4 111,4 118,0 121,4 120,8 118,2	97.9 95.9 96.9 96.9 97.2 97.8 99.9 101.1 104.7 112.7 119.0 122.9 121.6 118.0 1	101.7 101.6 101.6 100.1 99.9 101.8 102.7 106.1 114.1 119.1 122.6 120.9 117.1 1100.9 103.4 103.2 101.7 103.0 104.2 104.5 107.7 114.3 118.8 124.1 120.3 114.9 1	110,0 105,3 103,5 101,4 101,9 103,1 104,7 107,9 115,2 119,2 123,4 118,1 113,6 1	108.8 108.8 109.1 109.1 107.2 105.0 105.9 109.1 115.5 121.0 119.1 115.3 110.1	167.6 168.1 167.9 167.9 169.2 168.8 166.9 169.9 115.8 126.2 118.1 113.8 169.3 1	106.1 105.6 105.6 106.1 106.7 108.3 108.2 108.6 114.8 119.0 116.7 111.8 107.4 1104.9 105.2 106.0 106.0 106.0 107.6 109.3 111.2 114.6 117.9 116.0 110.9 107.2 1	103.3 104.4 105.7 104.9 105.9 108.3 108.2 111.2 114.3 116.8 114.4 109.4 106.1 1	100.5 103.1 104.5 104.1 105.7 107.4 106.8 110.3 112.1 114.6 111.8 107.7 104.1	96.0 59	89,3 92,3 94,9 95,0 99,4 100,5 97,3 98,0 101,9 101,9 09,5 97,0 97,6 1	87.1 88.1 92.6 38.5 94.1 94.3 93.8 95.3 97.4 99.9 96.3 91.3 90.9 1	82.1 83.6 86.5 87.6 91.8 92.5 88.1 90.1 92.5 94.6 91.4 86.8 86.5 1 74.6 76.6 79.3 81.6 83.8 84.8 83.2 83.2 88.1 89.1 85.4 81.5 80.7 1	69.0 70.6 72.5 75.4 75. 3 76.5 77.5 77.3 84.4 82.8 79.9 75.7 75.5 1	117.0 116.9 117.6 116.6 117.1 118.1 118.0 120.9 126.0 130.4 132.3 130.2 127.0 167.8	TEST DATE 02-07-78 - TAPE NG, N291 IALPHA SB59 TAMB 1 LOCATION C41 AHECH CH AERG, RDG, ADHO41 PAMB 29,6938 RELHUM 4	TEST PGINT ACMUSTIC RANGE 0 0101 12.2 M (40.0 FT) ARC 132.4 SQ CM (20.52 SQ IN) - MODEL 0.		The second secon
				FRED 50	áä	100 125 160 200	250	2 4 8 20 5	93(900	200 200 200 200 200 200 200 200 200 200	1600	2500	213	400 2000 2000	6350	10000	15000	25000	31500	40000 00000 00000	63000	OASPI		MØDEL 0100	81	

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59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - FJ-ZERRFMÖDL X01010	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL.					.8 92.1 91.1 91.4 91.7 94.3 96.5 98.9 103.6 108.9 113.8 116.7 117.4 150	. 9 . 90, 7 . 91, 4 . 91, 7 . 93, 6 95, 7 . 95, 3 . 98, 5 . 105, 4 . 11, 5 . 115, 9 . 116, 3 . 117, 0 . 151 . 4 . 91, 9 . 92, 7 . 92, 5 . 93, 8 . 96, 0 . 96, 8 . 95, 5 . 107, 2 . 115, 0 . 118, 4 . 119, 6 . 117, 0 . 153	03.0 94.5 94.1 94.7 97.5 98.4 100.8 109.0 116.9 120.8 121.2 117.3 155	0 04 0 05 0 07 0 07 8 07 8 00 0 101 1 100 7 110 0 100 0 100 100 10	7 101,8 101,6 100,1 99,9 101,8 102,7 106,1 114,1 119,1 122,8 120,9 117,1 156	.9 103.4 103.2 101.7 103.0 104.2 104.5 107.7 114.3 118.8 124.1 1	1 109,4 107,9 105,7 102,3 103,1 104,5 108,4 115,8 120,3 121,2 116,2 111,4 156	8 108.8 109.1 109.1 107.2 105.0 105.9 109.1 115.5 121.0 119.1 115.3 110.1 156	0 108,1 107,9 107,9 109,2 108,8 106,9 109,9 115,8 120,2 118,1 113,8 109,3 1 1 105 6 106 6 106,1 106,7 109,3 108,2 108,6 114,8 119,0 116,7 111,9 107,4 1	9 105.2 106.0 106.0 106.0 107.6 109.3 111.2 114.6 117.9 116.0 110.9 107.2 154	3 104.4 105.7 104.9 105.9 108.3 108.2 111.2 114.3 116.8 114.4 109.4 106.1 17 104.0 104.9 105.0 106.3 107.2 107.8 110.9 113.8 115.4 113.0 107.9 106.0 1	5 103.1 104.5 104.1 105.7 107.4 106.8 110.3 112.1 114.6 111.8 107.7 104.1 152	.1 101.4 101.8 102.9 104.7 105.9 105.1 107.9 109.8 112.0 109.9 105.6 102.6 101. .0 99.2 101.3 101.9 104.1 105.1 103.8 106.4 107.6 110.5 106.9 103.8 101.2 151	.8 97.3 99.0 102.3 103.6 100.8 103.3 104.4 106.8 103.6 100.6 99. .8 94.9 95.0 99.4 100.5 97.3 98.0 101.9 101.9 99.5 97.0 97.	1 88.1 92.6 93.5 94.1 94.3 93.8 95.3 97.4 99.9 96.3 91.3	6 76.6 79.3 61.6 83.8 84.8 63.2 83.2 86.1 89.1 85.4 81.5 80.7 1	2 64.6 63.1 70.9 69.6 71.8 70.1 72.2 78.8 76.0 74.0 63.3 67.3 1	117.0 116.9 117.0 116.6 117.1 118.1 118.0 120.9 126.0 130.4 132.3 130.2 127.0 167.8	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) O. REFRACTION CORRECTION IMPUT 1.000 CALC 1.000 FREE JET DIAMETER (IN) 48.00 TURBULAMCE CÓRRECTION	TEST DATE 02-07-78 TAPE NO. N291 IALPHA SB59 TAMB 16.88 LOCATION CALANECH CH AERO. RDG. ADHO41 PAMB 29.6938 RELHUM 43.40		TEST PCINT ACGUSTIC RANGE SIZE SIZE OTO 12,2 M (40.0 FT) ARC 132.4 SG CM (20.52 SG IN) - MODEL 0.	
			FRED	S 22	800	125	200 200 200	250	318 200	500	000	1000	1250	2000	2500	3150	5000	6300 8000	10000	12500	20000 25000	31500	50000	80000	OASPL.				MODEL 0100	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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					OI OI	RIGINAI POOI	PAG QUA	E IS LITY				88 40	FREE-JET SPEED M/SEC (0, FPS)
			4040	9 175	6 174 8 173 9 172 9 172	72.5 171.8 71.1 171.3 67.8 171.0 64.2 169.6	6 169 1 168 7 166	-			98,6 186,0 97,8 99,0	TAMB 16.	- FULL 0.
X01015	DEGREES	. 15	ကယ္လယ္	4 97 6 96 6 93 1 91	6 0 0 0 0 8 8 9 0 0 8 8 9 0	89,8 81,5 88,0 79,4 86,4 78,3 83,2 74,9	5 71. 5 65. 6 56.	2 24			110.3 105.8 112.7 106.1 113.7 106.1 CY SHIFT -9	PHA SB59 AMB 29.6	S12E 400.00 SQ 1N)
FJ-ZERRFMÖDL	FROM INLET, D	. 130.	7 95.5 5 97.3 9 98.3 1 99.3	4 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 100 2 6 99 C 6 97 5	93.5 94.4 92.7 92.8 90.8 91.6 86.0 88.5	4 86.3 0 74.1 67.1	34.5		•	06.2 109.7 11 11.7 114.3 11 11.7 114.9 11	N291 1A	SQ CM (1
1	ANGLES MEASURED FI	0. 110.	55 81.7 0 83.0 1 85.6 86.8	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88.9 91.3 88.3 90.8 87.1 90.1	3 75.0 2 75.0	1 58 3 1 40.6 15.5			1 101.5 1 .4 108.5 1 .4 108.5 1	APE NO.	SL \$032,2
IDENTIFICATION	ANGLES	. 90.	.5 78.7 .3 50.3 .1 81.6 .4 82.6	84.4 86.6 85.6	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 89 1 8 87 9 8 87 9	85.2 78.8 78.8	.8 63.0 7 45.5 1 9.4			98.1 99.3 99 06.0 107.4 106 07.2 108.6 106	Но	RANGE O.O FT)
		60. 70.	2 74.7 0 76.3 1 77.6 3 79.3	9 82.1 3 83.5 6 83.1	5 90,4 0 88.8 4 86.8	0000	2 81.1 3 77.5 0 71.9	. 6 56.0 . 3 39.0 . 1 13.6			97.0 97.3 6 03.2 104.1 10 03.2 104.1 10	02-1	ACCUSTIC 731.5 M (240
		40. 50.	3 72.4 9 73.4 9 75.3	3 82.0 1 85.2 85.2	86.9 86.9 84.1	8 82.1 7 81.4 1 80.1	7 75.1 7 71.4 9 64.5	6 43.7			.3 95.7 .7 101.2 1	TEST DATE LØCATIØN	TEST PGINT 0101
		-	ļ		ŀ	800 78 1000 77 1250 75	1 .		12500 16000 20000 25000		600000 CASPL 94 PNL 98	NING BOAT	30 0100 0100

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																																	14.54	·I	FREE-JET	
COUND NOISE					PWL					1 147.2	7 149.1	-	. 8 151.	9 152		7 153.7	8 154	2 154.	9 60	4 153.	2 152.	. 4 152.3 151.6	9 151.	9 150.	.6 150.1	7 147.	8 147.	.4 146.0	1 143.	6 14	.3 165.7		TAMB	ı	MÖDEL	
FOR BACKGROUND NOT	X01020		ES	150. 160						114.0 114	116,6 114	117.	117.71	117.3		15.5	115.61	113.7	10.3	108.6 1	106.7	103.0	103, 3	101.7	100.4 94.	94.1	4	ص ب		4.2	126.8 121		SB59 29,7020	1	N CS	
CORRECTED	FJ-300-FM6DL	B300-FMCDL	INLET, DEGREE	130. 140.						05.4 110.8	0 112	.0 115.	.1 117.		9	.2 121.	.4 121.	7 120.	.5 1.8.	.1 116.	.4 115.	1 2 3	5 110.	. 1 108,	09.6 106.3	.0 98.	.5 ,95,	93.7 30.0 87 7 82 5	6.	.4 72.	127.8 130.4	-	I ALPHA PAMB		SIZE (20.52	
URE LEVELS	3	CKGROUND FJ	RED FROM IN	120.						100.3	102.2	103.2 1	105.5	108.4 1) - C	112.1	112.7	200	. 4.	113.6 1	113.7	9.81	112.8	110.2 1	0 107.7 1	101.7	97.5	92.4 4.0	83.2	6'92	3 124.4 1		N292 ADH053		32.4 SQ CM	
SOUND PRESSU	Σ	BAC	MEASU	100. 110						6		1.	6 /	2 5	0.4	3 10	10	5 C	4.	.5 10	ت. ت:	106.9 109	6 10	.2 10	102.9 105	7	o :			9.	116.9 119.		TAPE NG. AERG. RDG.	l	ARC	
	TIFI		ANGLES	80. 90.						5 91.	.0 92,	.8 92.	94.	4.0 95.6	26 6	5 100.	. 2 101.		2 109.	.0 107.	105		8 105.	8 104	02.5 103.7	5 99.	Q (6. 6. 2. 6.	75	0.	5.5 116.6		CH CH		IC RANGE	1
UNTRANSFORMED MOI				. 70.						88.1	88.2	89.0	91.1	92.2	95.0	97.7	99.66	108.61	106.6	103.7 1	104.55	102.9	102.01	101.3 1	.4 100,5 10 .2 97 6 10	93.8	92.4	85.6 79.7	73.3	68.0	6 115.1 11		E 02-08-78 N C41 ANECH		ACGUSTIC	
TNO				50. 60						6 87	6 88	2 90	5	99	96	6 98	0 103	- 8 108	6 104	2 105	8 104 104	200	4 102	0 100	98.4 99.	7 93	7 90	77	4 71	.7 64.	115.4 115.6		TEST DATE		T POINT	
-				- 11	50 50	88	20	25	00 00	84.3	92.6	87.9	88.2	89.8 -	96.0	98.8	107.7	105.0	104.8 1	103.8	102.9	101.2	100.1	97.4	00 00 00	89.	87.	74	68	62,	114.6		•		TEST 0 01	
					F .	~ u	15	~	160	180	က်	4	ត	, e	<u> </u>	125	160	250	316	4000	2000	8000	10000	12500	16000	25000	31500	50000	63000	90000	GASPL				MODEL 010	

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC

IDENTIFICATION - FJ-300-FMODL X01020

						ORIGII OF PO	1	GE IS ALI TY			- YES - YES	i i	ET SPEED (209.0 FPS)
	60. PWL		2.6 146.0	. 5 146. . 3 151. . 8 152.	3.1 152.9 1.6 153.2 2.9 153.8 2.0 153.6		.8 153. 153. .7 153. .0 152.	04.2 152.3 02.8 151.7 03.7 151.5 97.1 150.5	0477	D (N	SORRECTION SORRECTION	RELHUM 55.60	MODEL 88.09 M/SEC
DEGREES	140. 150. 1		106.9 113.1 11	112.6 115.3 11 116.1 117.1 11 117.7 117.2 11 119.0 118.5 11	.2 117.6 1 .2 117.0 1 .6 117.2 1 .8 115.2 1	8 114.0 1 5 111.9 1 3 110.6 1 6 109.2 1	2 2 2 2	.6 105.0 1 .1 103.0 1 .9 101.5 1 .7 95.8	.3 91.4 .1 86.3 .7 81.6 .1 74.3	3 64.4 5 127.1	88	ALPHA 5859 PAMB 29,7020	20.52 SQ IN) -
ILES MEASURED FROM INLET,	120. 130.		7 99.6 104.7	101.4 10 104.2 11 106.9 11 108.7 11	1 110.2 114.4 2 111.0 113.9 6 111.8 115.2 9 112.4 116.3	3 112.5 116. 3 113.7 116. 1 113.4 116. 0 114.0 116.	2 114.9 116.8 3 116.1 114.8 4 114.6 114.9 2 112.3 112.9	116.4 1 107.6 1 106.3 1 102.0 1		~ -	FT/SEC) ER (IN)	ADHO53	32,4 SQ CM (2
ANGLES MEASURE	90. 100. 110	-	.3 92.1	.5 92.5 .7 93.4 .2 95.0 .9 96.0	.9 97.8 1 .9 98.7 1 .6 100.6 1	.8 101.8 1 .1 103.4 1 .1 106.4 1 .7 108.8 1	.1 109.0 1 .0 108.3 1 .3 108.7 1 .7 107.7 1	7.5 106.3 1 6.7 105.0 1 5.0 102.2 1 2.1 99.2	7.0 95.0 4.1 69.9 6.4 84.7 8.1 78.2	70.8	FREE JET VELO FREE JET	AERO, RDG.	r) ARC
	70. 80.		89.5	.6 91.3 .3 92.1 .5 93.2 .7 95.4	95.8 98.0 99.6 1	.8 102.9 1 8 109,5 1 .6 110.2 1 .4 106.0 1	6 106.5 1 1 107.1 1 8 107.2 1 1 107.4 1	4 106.4 1 5 106.5 1 5 105.1 1 8 102.5 1	V 0 4 V	.3 118.1 1	SCALE FACTOR	C41 ANECH CH	12.2 M (40.0 F
). 50, 60,		92.7 90.	92.7 92.2 92.8 94.0	95,2 95, 95,6 96, 98,8 99, 101,8 101,	.5 106. .2 113. .1 111. .2 106.	108.8 1 107.6 1 107.8 1 107.6 1	6, 7 106. 3, 7 104. 3, 3 103. 0, 5 99.	1 55,3 96,5 9 85,8 91,4 1 85,0 86,9 7 77,3 78,0	0 119.3	ZE	LOCATION ST POINT	0102
	40 FREG	50 63 00 00 00	125 160 200 250 89.		-			12500 16000 20000 25000	31500 94. 40000 88. 50000 85.	OASPI.		#SOEL TE	0

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										OI OI	RIO F I	GIN PO	IA	L R	P# Ql	iG JA	E Lſ	is TY	•														EED 9.0 FPS)	
AND EXTRAPGLATED	.0 DEG. F., 70 PESTANT	O-FMGDL	ANGLES MEASURED FROM INLET, DEGREES	. 50. 60. 70. 80. 100. 110. 120. 130. 140. 150. 160.	9 72.6 73.2 73.5 74.7 75.8 76.1 76,2 85.7 82.9 95.0 93.8 87.1 1	6 73.2 74.9 75.7 75.8 76.9 77.6 78.1 88.4 93.6 96.6 93.9 96.4 74.4 76.0 76.8 77.9 78.6 78.6 80.7 90.2 94.7 97.8 95.1 87	0 75.5 76.8 78.4 78.4 79.6 80.4 82.2 91.6 94.7 97.9 94.1 86.2	3 75,8 77,7 79,6 80,4 80,5 81,2 83,2 92,3 94,1 98,8 93,4 84,4	.9 78.8 80.1 81.4 82.0 83.0 83.0 84.0 92.8 85.3 99.0 93.4 90.1 83.8 82.7 84.1 84.3 85.6 93.4 96.2 98.0 90.9 84.0 1	8 89.1 87,3 90,4 84,9 82,9 83,8 85,8 93,2 96,2 96,7 89,4 81.9	.0 94.5 93.9 92.1 91.2 87.0 85.1 86.6 94.2 95.9 85.0 85.7 78.7 1 7 88.9 91.5 90.5 91.6 91.7 87.8 88.0 93.5 95.4 93.2 84.8 77.0 1	6 87.6 88.2 87.0 87.2 90.0 89.9 88.6 93.7 94.8 92.0 82.7 75.3	.8 86.9 87.8 87.9 87.3 88.1 89.8 90.5 94.3 93.8 90.6 81.0 74.2 1	.6 85,3 86,6 87,2 87,8 89,8 88,9 90,5 94,2 92,4 89,2 79,4 72,4 1	6 84.6 85.1 85.9 87.7 89.3 88.0 89.8 91.0 89.9 85.1 76.4 68.7 1	4 83.1 84,7 84,8 86,5 87,7 86,3 87,9 88,6 88,4 82,4 74,2 65,6 1	.1 79.6 81.8 34.7 86.3 86.9 84.9 85.7 85.5 84.3 78.8 70.7 81.1 1	1 72 7 74 8 75 7 80 4 80 4 77 1 75 3 77 1 75 8 67 2 55 7 42 2 1	4 62.7 67.8 70.2 71.7 72.3 69.9 69.3 69.2 66.3 56.6 42.3 24.6	.4 48.7 56.4 59.5 64.6 64.6 59.8 56.8 58.9 53.0 40.7	9.6 15.6 19.5 21.0 20.0 15.2 16.8 4.0							7 98.5 99.0 98.9 99.0 99.4 98.6 99.5 104.6 108.3 107.5 102.6 95	.5 105.4 106.1 106.3 107.6 108.1 106.6 107.4 110.6 .9 106.3 106.8 106.3 108.8 109.2 107.1 107.4 111.2	FULL CONTRACTOR OF THE STATE S	DIAMETER RATIO 8.260 PREQUENCY SHIFT -8	TEST DATE 02-08-78 TAPE NO. N292 IALPHA SB59 TAMB 14.54 LOCATION C41 ANECH CH AERO. RDG. ADHOS3 PAMB 29.7020 RELHUM 55.80	FREE-JET SPEED 812E 8032.2 SQ CM (1400.00 SQ IN) - FULL 88.09 M/SEC (289.0 F	
6				FREG 40		63 71	1	I	160 77		315 92			82	80	78	4 6	N 65	4000 55	40		10000	16000	20000	31500		00008	OASPL 96	PNL 102				MODEL TI 0100	

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							OF OF		INA OOF		PAC		IS IY			•				SPEED 385.0 FPS)	
																			14.54 55.60	FREE-JET SI 17,35 M/SEC (3	
40.0 FI. ARC - X01030 - X01400		160.		146	12.7 147.7 11.8 149.8 08 8 15.	2 2		9 151	02.4 153.2 02.8 153.3	6 152	0.152	5 151	. 1 151	6 149	5 147	9 146	6 143	19.2 164.8	TAMB D RELHUM	MGDEL 1	
40.0 F1. 0L X01030 0L X01400	8 2	. 150.		0 113.6 1	116.6	115.5	12.2	11.3	9 110.6 10	110.3	106.2	104.2	103.5	100.4	94.1 69.4	98.7 7.99.7	72.3	0 124.9 1	IA SB59 IB 29.6970	- (NI 0S	
J-400-FMGDL J-400-FMGDL	INLET, DEGREE	130. 140		6		7 118		7 1 8	116.8 118. 116.7 117.	3 115	2.5	20	. 0 110 . 9 107	9 105	76 97	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	27 27	127.2 129.	I ALPHA PAMB	812E M (.20.52	•
ENI K.M. SID. Model FJ Background FJ	-	0. 120.		3 99	un -	9 107	3 100	5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.2 113.0	113	0	U C	9 1 2 0	3 107	9 102 1 97	928	2 83	.9 124.3	1. N292 1. ADH054	32.4 8Q CM	•
י קַ	ME,	100, 110		6		- 6	 -	N 4	101.5 105	7		- 6	- c	4	9	α-	0 –	116.7 118	TAPE NO AERO. RDG	ARC 1	
TIF	ANGLES	80. 90.		.3 90.	и ю e <u>e</u> e	0 94		99.00	01.0 99.9 08.7 104.8	2 107	3 104.	105	105	0.0	10 P		- m	5.3 116.4	78 5CH CH	FIC RANGE 40.0 FT)	
SS.U DEG.		. 70.		87.2	68.2 - 2.8 - 2.8	90.7	94.1	100.8	2 105.9 10 8 108.8 10	103.2	104.0	102.6	102.0	99.8 1 96.8 1	93,6 91,9	86.1 79.7	72.5 67.0	0 114.8 11	E 02-08-78 N C41 ANECH	ACOUSTIC	•
		50, 60		9 86.	2 4 8 2 8 8 2 8 8	6 90.		3 103.	08.4 108.	9 103.	a 103.	9 102	5 101. 5 99.	6 9 9 5	5 92. 2 90.	94.	.4 70. .7 64.	14.8 115.	TEST DATE	ST POINT 0103	
		40.		9	0 0 ₹	0	י א פ	ကြ	07.1	00	~ 0	2	- 	б —	7	~ 0	- w	114.11		TEST 010	

4.663							(RIGIN/ OF PO	AL PAI	GE 18 ALITY					FP3)	
07/18/79				•			-						RECTION - YES	.	FREE-JET SPEED 35 M/SEC (365,0	
	FT. ARC			160. Pui		110.2 143.8	111.6 149.6 110.4 150.0	0000	20 ch - 30	109.6 153.8 108.0 153.6 107.9 153.1 106.6 152.5	2070	04846	.9 166. RACTION	TAMB 14	- MGDEL 117.6	
PRESSURE LEVELS	17, SB 40.0 I	3DL X01030	T, DEGREES	140. 150,		.6 106.9 110.8	.9 111.9 114. .1 116.3 116. .4 11@.3 115. .6 117.2 115.	.6 119.0 11 6 119.0 11 6 119.4 11	117.9 114. 4 117.8 114. 6 116.4 111. 2 118.2 109.	3 114 6 112.5 0 109.3	.2 107.9 106 .0 106.3 108 .5 103.4 102 .3 100.0 97	.4 96.3 .3 90.6 .1 84.8 .0 78.8	126.3 125. 385.00 48.00	≥	\$12E 20.62 SQ IN)	
ED MODEL SOUND PRESSURE			SURED FROM INLET,	110. 120. 130		90.8 98.0 102	100.0 10 102.0 11 105.2 11	109. 109. 111.	112.7	7 115. 7 115. 7 114.	110.4 1 108.7 1 107.2 1 101.6 1	95.0 96.2 99 90.2 94.6 92 63.0 90.5 97 76.3 84.3 82	18.8 124.8 1 ELGCITY (FT/ ET DIAMETER	NG. N292 IDG. ADHO54	132.4 SQ CH (
FLIGHT TRANSFORM	70 PERCE	IDENTIFICATIO	ANGLES MEASURED FROM	. 90. 100.		90.2 90.8	91.3 90.7 92.1 92.5 93.5 94.3 94.7 94.8	96.1 96.7 97.9 96.4 99.4 98.9 101.2 101.0	101.1 101.3 106.3 103.8 111.7 107.2 109.5 110.0	109.4 109.3 108.7 108.1 108.3 108.2 107.8 1	7.0 105.6 1 6.5 104.3 1 5.0 101.7 1 1.1 96.6	96.0 94. 94.1 89. 85.9 84. 77.8 78.	118.8 117. FREE JE FRE	TAPE CH AERO. R	RANGE 40.0 FT) ARC	
Ì	59.0 DEG			60. 70. 80		.1 90.2 89.	.1 90.2 91. 8 90.4 91. 9 91.3 92. 8 92.5 95.	.4 94.0 95. 3 96.0 96. 7 96.8 98. 4 99.2 101.	.7 104.3 103. 7 110.6 111. 5 112.5 110. 4 109.5 106.	.0 107.3 108. 1 108.7 108. 7 107.3 107. 3 107.0 107.	6 106.1 106. 9 104.1 106. 9 104.1 105. 6 100.5 102.	1 96.5 96. 1 92.8 94. 8 87.8 86. 4 80.4 77. 6 70.7 70.	.4 118.9 118. SCALE FACTOR	ATE 02-08-78 ION C41 ANECH	ACGUSTIC 12.2 M (4	
				40. 50.		5 92.6	5 92.6 2 93.7 5 94.5	7 95.8 6 96.5 4 98.3 8 106.4 1	2 112.4 2 116.7 3 110.6 1 10.2	108 108 108	7 107.% 1 2 104.8 1 2 104.7 1 8 101.4 1	95.6 96.2 97 90.1 69.9 92 87.3 86.4 87 78.7 76.3 79 68.7 68.3 69	.8 121.4 126 EL/FULL SIZE NPUT 1.000	TEST DATE LCCATION	TEST POINT 0103	A Company of the Comp
38			•	FREG	63 63 60 60	125 200 250 250					12500 16000 20000 25000		OASPL	LNIVA 25 VA	HONEXAEL	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SS : 2400.0 FT. SL

Tup.

												R	IGI P	000	AL R	F	PA U	GF A!	: \ _[7]	is iy			•												
					*																											5.60 5.60	FREE-JET SPEED		
		7	67.9		59.7	20.7	9.0	2.4	2.5	- e		6.1	4.6		70.4	9.0 9.0) - 3 g	37.8	9.9	64.7	27.0								?			TAMB 14 RELHUM 65	117.		
		160.	0	, c	9 0	20	(O) H	84.9 17	7.	, r	. 0	4		r 60	6	- ·	- œ	-		7;								•	<u>.</u>	8.2		REL	FULL		
		150.	4	vi a	. –	-	ب ا		a (ā u	۸ ا	01		. 0	-	4.	4 K											•	9.0	•	9	SB59 29.6970	2		
X01035	DEGREES		ı					90. K	l			i			1													•	. 3 102 102		SHIFT		9		
		0. 140	0	6 C			6 (0 F	. e	4 P	~ 4	0	N C	·		ries N	O 4		60	•							355		100	1.	FREQUENCY	I ALPHA PAMB	81ZE (1460.00		
FJ-400-FMGDL	INCET	. 130	10	ā ð	9	6	9 6	3 6	6	9 9	9	85	G 1	8	94	9 1	א פ	20	32	a								(Ξ	FREG	54	동		
FJ-40	FROM	120	1			ŀ		900. 200. 24.	1						l			1											10.6		õ	N292 ADH054	2.2		
	MEASURED	110,	78.	77.8	80.7	82.	60 0		86.3	4.78 4.78	90.7	90.	9.0	86.7	. C.	ai e	0.8	58.	40.	14.6								•	106.0	9	8.260	R NG.	9032		
		100.	76.1	76.9	79.2	80.8	62.0	N 6.	85.3	0 - 0 -	- 0	6.0	8) c	9 60	84.2	0. U	46.6 7	38	44.6	19.8									106.2	106.7	RATIO	TAPE AERO.	ا ا		
I DENT I	ANGLES	9	١.			i .		83.2					•		١.	•	•	64.6		•									108.0		AMETER F	ı	RANGE 10.0 FT)		
		80.		75.3				835.B	١.			ı .			1 -	2		64.0										(07.8	09.1	DIAM	18-78 Anech Ch	TIC RA 2400.	-	
		70.	١.	•			•	80.8 85.8	٠.			١.			١.			٠I .		•									06.8	07.4 1		02-0 8-78 C41 ANEC	ACCUSTIC 5 M (240		
			6	4.6	. 60	9	ص ،	86.7	2	œς	i 4	<u>س</u>	٠. ٥		8	ص د		<u>.</u>	60	0								•	y –			- 1	731		
		20.	-	<u>د</u>	· -	1	4.	, 0	G 1	n u	۰,	4	<u> </u>) /	.7	<u>س</u> د	<u>ه</u> د	0											- ^	R)		TEST DATE LOCATION	POINT 03		
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										OR OF	rigi P	INA 00	R	P# QU	IG JA	E I	IS TY												JET SPEED (C (O, FP8)	
, -		PWL	70.6	72.6	0 4	. 6. . 6.	0.6 -	2.9	70.8	0.0	9.0 - 0	8.7 7.6	2.2	0.4	4.1	63.5 61.8								4.4			AMB 16.88 HUM 43.40	!	FREE-JET O. M/SEC (
7 8.			_		-1-			•	75.6 17	-1-					_		9 9	2						98.7 184	99.1		TAMB 10 RELHUM		- FULL	
SB 2400.0 FT. \$	ES	150.]	96.4	J		9 6	6	85 50 50 50 50 50 50 50 50 50 50 50 50 50	8	200	28	ļ			24.								105.5 6.60	100	1FT -9	SB59 29.6910		SQ IN)	
	, DEGREE		1	.3 98.4		_		1	7 92.6				ı			0 42.2	<u>.</u>							5 108.7	8 112.3	JENICY SHI	I ALPHA PAMB		\$12E (1400.00	
H. STD. DAY, FJ-ZER-FMGDL	FROM INLET	120. 130.	75 e 20 e 20 e 20 e	96	18 87	96	96 7	4 97	6 94	900	96	66 89.	2 84	7 20	2 65	. 3 23.	; -							107	0 112	FREQUENCY	N291 ADH043		SO CM (1	
2 1	URED	o.	~ 4		وام	.	40		88.89	ای	00	ഗ മ	60 0	3 C	Q.	<u>ن</u> و	0							99.2 105	0	8.260	9.66 16.0		9032.2	
O DEG. F., 70 PERCENT IDENTIFICATION	ANGLES MEAS	100.	١.		-1		85.4 85.0	-1 -	. 64. 64.6	اہ						١.								96.3	ila	RATIO	TAPE AERO. R		.	
F., 70	ANGL	90.	77.	80.	8	83.	84.	83.	84.4	84.	9 9	8 8 2	91.	9 6	66.	59.	0.							_	105	DI AMETER R	5		RANGE 10.0 FT)	
			3 75.	17 (3 79.	4 63.	4 82.	9 82.	0 82.8	6 82.	9 82.	81.8	6 80.		.2 65.	.55 25 26	5.4. 							Θ K	5 103	10	-07-78		ACCUSTIC RANGE 5 m (2400.0 Ft)	
6 6		60. 70	۰ م	ç ;	_	n c o	- 1	n 1	7. 82.	6	` w	и ю	01 0	:0 N	4		9 0							1.8 92.	0		92		731.5	
			ဖ စ	90	v) c	i ro	40	i in	79.8 81	~	၁ ဖ	- o	- 1	× 10	e)	40								90.5 91	101		TEST DATE		0104	
		40.	6 0 -	4.	ص ا	o no	o 10	ο ı	76.8	- إي	- N	ص د <i>ر</i> ا	0.	4.4	-	ო -	-							87.2	3.0				ŭ.	
		FREG	0 0 0 0 0 0 0	8	00 2	160	200 250	315	500	630	1000	1250	2000	3150	4000	5000	8000	12500	16000	25000	31500	50000	80000	OASPL	PNLT				MODEL 0100	

											OR OF	IIGI P	NA DO	IL R	P Q	AG UA	E I	7.4						:					
																			•							19.76 49.40	FREE-JET SPEED 09 M/SEC (289,0 FP\$)	•	
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE	TIFICATION - MODEL FJ-300-FMSDI	RED FROM INLET, DEGREES	40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160,	į				0 86.8 85.8 86.6 87.2 89.8 91.9 93.6 96.6 103.5 106.5 112.0 111.6 145	85.5 96.9 67.7 89.6 91.7 93.1 94.7 102.7 110.3 114.4 116.3 111.3 1	5 88,3 89,5 89,3 90,7 93,3 84,7 86,1 104,0 112,1 115,7 115,7 108,6 3 89,4 90,5 94,5 94,4 95,8 98,4 106,4 113,2 117,1 115,5 106,9 1	6 90,2 91.9 92.2 53.6 95.4 96.8 99.7 108.4 114.0 117.6 115.3 104.7	7 92.5 84.0 93.6 94.7 96.5 98.4 101.3 110.0 113.6 117.5 113.7 102.6 1 1 94.4 95.2 95.7 97.0 98.6 99.3 102.9 110.6 113.5 117.9 113.3 101.7 1	2 93.0 94.6 95.6 96.9 89.5 101.4 103.6 111.2 113.4 117.6 112.3 101.6	0 99.8 99.3 97.1 96.9 98.8 101.7 105.1 112.0 116.2 117.4 111.3 101.8 1	6 100,1 100,4 100,4 99.0 99.8 101,5 105.6 112.0 114.3 116,2 110,4 101.6 1	6 97,2 98,7 99,0 100,0 109,4 101,5 105,2 111,6 114,1 114,0 107,4 95,9 17 96,8 96,6 97,8 123 1 106,0 97,5 1	0 97.4 97.9 97.4 98.6 101.2 102.7 105.1 111.5 113.6 111.3 104.8 97.3	9 97.5 97.6 97.0 98.8 100.4 102.5 105.3 110.5 112.4 110.2 102.8 86.4	0 94.7 95.6 96.7 97.7 99.6 100.8 103.2 107.1 105.8 105.8 101.1 94.3	3 93,3 94,6 95,2 97,6 99,4 98,6 102,4 105,1 107,6 104,5 89,5 5 91,4 91,6 92,7 96,3 98,1 96,3 99,3 102,4 104,4 101,4 96,6	3 87.2 89.4 89.5 93.6 94.5 92.8 93.6 99.4 99.7 87.6 93.8 90.1 1	1 79.4 82.3 83.6 87.1 87.0 83.4 86.1 90.1 92.2 88.5 82.8 80.3 1	9 /2.7 /4.9 /0.9 /0.0 /3.6 /0.0 /0.0 /0.1 00.2 00.7 02.0 //.0 /4.2 0 66.2 68.8 70.5 70.6 72.2 72.8 71.9 81.5 79.4 75.9 71.0 66.3	0 59,7 62.5 65.4 63.7 66.6 65.4 66.0 73.9 75.4 70.9 62.4 60.3	107.3 108.3 108.9 108.6 110.0 111.7 112.8 115.9 122.4 125.7 127.8 124.8 116.7 163.0	TEST DATE 02-08-78 TAPE NO. N292 TALPHA SR59 TAMB 19.	ACCUSTIC RANGE 2.2 H (40.0 FT) ARC 132,4 SQ CH (20.52 SG IN) - HODEL 80.		
	· · · · · · · · · · · · · · · · · · ·		·	FRED	8 8 8	100	160	250	204	200	0	1000	1600	2000 2000	3150	4000 6000 6000	6300	2000	12500	1 6000 20050	25000	40000	90000		OASPL.		MODEL		93

					0	RIG F F	N	AL I	AC U	GE 1 ALIT	IS IY) FPS)	
																				CORRECTION - YES CORRECTION - YES	19.76 49.40	FREE-JET SPEED 3.09 M/SEC (289.0	
		160. PWL		10.1 143.8	11.4 147.3	10.2 149.6	lo (08.5 150.6 08.5 150.6	-	06.0 160.2	-1		-1	4 4	02.4 148.2 06.2 147.2	146		142	121.1 163.2	REFRACTION CO TURBULANCE CO	TAMB 0 RELHUM	MODEL 68	•
X01050	DEGREES	140. 150. 1		07.1 110.6 11	-0	4 116.4 1	6 115.2 1		6 112.8	0.00	2 08.0	6 106.4 1 9 106.3 1	6 105.1	2 101.6	.9 100.6 1 .2 94.9	0.090.7	79.5	. 9 62.5	126.9 125.1 12	289.00 RE 48.00 TL	1ALPHA 5859 PAMB 29.7210	52 SQ IN) -	
- FJ-300-FMGDL X010	INLET,	. 130.		6 103.2 1	6 110.4	4.01	112.3 1	10.2 112.1 11	115.1	13.7	4 113.6 1	9 112.5	1 110.5	5 107.1	.6 103.6 1 .5 102.2	.6 97.4	93.6	.1 73.2	.4 125.1	(IN)	N292 1 AL ADH057 P	SQ CM (20.52	
Z	MEASURED FROM	0. 110. 120		5 91.0 98	91.6	94.6	96,0		102.3	26.7	105,0	105.2 1	105.6	103.3	100.3 94.9	91,4	78,	67.0	5 115.6 122	VELOCITY JET DIAN		132.4	
IDENTIFICATION	ANGLES P	90. 100		06 8 80	90.6 90 91.8 92	93.55 94	95, 7 96	96.1 98	98.5 99	100.9	103.2 103	103.3 103	103.9 103	102.6 102	101.1 98 97.5 95	92.6 90	82.8 80 75.0 74	69.6 67	113.5 113.	FREE JET FREE	TAPE CH AERG. F	RANGE 40.0 FT) ARC	
		70. 80.		80	6 0	8 69 5	5 94.	95,7 95,8 98,3 98,5 98,3	2 96.	20 g	2 102.	. 0 101 102	5 102.	9 - 9	.7 100. .5 97.	,9 91.	8 82.	4 67.	112.1 112.6	SCALE FACTOR	1:	ACGUSTIC 2.2 M (
		50. 60.		6	0.89	0.0	94	94.3 95.2 96.1 96.9	96	- 4. 201. 201.	8 102	9 100	0 101	98	. 2 . 3 . 3 . 3 . 3	7. 92	93	5 66	12.4 112.3	\$1 ZE	TEST DATE LOCATION	TEST POINT 0105	
•		40, FRE0	50 63 80 00	-	98.1	200	93.5	96.4 97.6	99.6	103.4	101.9 1	101.0	100.7	-	93.0 90.0	88.5	50000 82.0 53000 73 9	64.6	0ASPL 111.9 1	MODEL/FULL INPUT 1.		MODEL TEST 0100 01	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

		160.	84.9 167 83.5 167 83.2 168	4	79.6 169.1 75.5 168.6 73.7 168.6 73.0 168.6	68.9 168.2 67.0 167.5 64.6 167.3 59.7 166.9	24.2 165 24.2 164 164 165 165 160 160	5 92.0 181.4 7 93.0 7 94.2	7210 RELHUM 49.40	FREE-JET SPEED - FULL 68.09 M/SEC (209,0 FPS)
16N - FJ-300-FM6DL X01055	ASURED FROM INLET, DEGREES	110. 120. 130. 140. 150	75.6 84.1 90.8 92.9 91 76.8 86.3 91.8 94.3 92 78.9 88.5 92.8 95.2 92	61.7 90.7 92.3 95.5 91 63.2 91.4 92.2 95.1 89.8 83.5 91.9 93.6 94.0 88 83.8 92.0 94.7 94.4 88	85.3 91.2 91.2 87.0 78	86.0 89.6 89.9 84.9 77 85.4 87.8 87.5 82.2 75 82.4 85.9 86.2 80.3 73 82.5 83.3 82.9 76.9 69 78.8 80.6 78.3 72.8 69	71.9 74.7 74.4 65.8 54.65.1 66.9 64.9 65.3 41.5 55.6 56.2 61.1 39.4 23.3 7.4 41.1 31.3 16.1 11.1 13.6 3.9	96.1 102.6 104.1 104.7 100.6 104.1 108.3 109.1 107.7 101.7 104.1 109.0 109.1 107.7 101.7 8.260 FREQUENCY SHIFT -1	E NG. N292 IALPHA 8859 RDG. ADH057 PAMB 29.721	SIZE 9032.2 SG CM (1400,00 SG IN)
IDENTIFICATION	ANGLES MEASU	60. 70. 80. 90. 100.	.8 72.2 73.4 74.6 .6 74.0 74.6 76.2 .5 75.3 78.4 77.3	.5 77.7 76.3 79.4 60.1 1 60.2 80.0 80.7 81.5 81.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0	7 80.5 80.1 81.5 83. 3 83.5 82.0 82.6 82. 8 82.8 83.4 83.0 83. 0 81.5 83.0 84.2 84. 6 81.1 82.1 84.1 84.	7 80.9 82.6 83.8 3 81.3 82.9 84.4 1 80.2 81.4 82.9 6 79.3 81.8 82.5 7 76.2 79.6 80.7	53. 16. 16.	91.8 92.5 93.4 94.5 94.5 94.5 99.8 100.9 102.7 102.7 00.6 101.4 104.0 104.8 103.2 D!AMETER RATIO	DATE 02-08-78 TAPE TION C41 ANECH CH AERO.	ACGUSTIC RANGE 731.5 M (2400.0 FT) SL
		40. 50. FREQ	69.0 71.5 70.1 72.5 71.7 73.2	75.0 74.5 76.2 76.1 75.7 78.8	315 77.8 78.3 7 400 60.3 62.3 8 500 78.5 81.6 9 630 77.8 79.9 8	76.1 79.3 75.3 79.0 72.2 77.0 68.8 74.2	56.0 67.8 49.8 58.1 36.6 44.9 15.8 27.3	88.3 90.4 94.5 97.6 94.5 97.6	TEST DATE LOCATION	MODEL TEST POINT 0100 0105

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							•		Oi Oi	RIG F F	SO VII	IAL OR	. P	AG UA	E Ll'	IS TY				•					FREE-JET SPEED .04 M/SEC (384.0 FPS)	ž
		60.	, ,		ir –	.9 144.	146.	8 148.	.7 149.	.3 149.	.7 149.	1 149. 9 149	6 150.	7 149.	5 149.	148.	3 148.	146.	1 144		4 141.	140	6.6 162.0	TAMB 19.76	FRE MODEL 117.04 M	
FJ-400-FMCDL X01060 FJB400-FMCDL X01400	, DEGREES	140. 150. 1				1 108.5 111.7 1	7 110.1 113.3 1	4 115.2 115.9 1	5 115.8 113.0 1	9 115.5 109.4	0 115,9 108.3	2 115.1 107.3	0 114.6 107.3	4 113.5 106.4	5 112.4 105.3	4 109.9 103.1	2 108.1 101.9 1 105.5 100.3	103.5 99.0	96, 3 93.0	7 87,7 82,8 8	77.3	A 62.4	9 126.3 122.4 11	IALPHA SB59 PAMB 29.7190	SIZE 20.52 SQ IN) -	
MCDEL FJ-40 BACKGROUND FJB40	SURED FROM INLET,	110. 120. 130				8 87.8 103.	99.4 105.	5 103.5 111.	7 105.4 112.	. 5 107.7 113. . 6 109.3 112.	9 109,8 113.	6 110.7 113. 4 111 6 114	D .	7 111.6 113.	.3 111.5 113.	1 110.5 111.	109.7 110.	.7 105.6 106. 8 102 4 103	1 99.4 96.	91.5 85.2 97. 85.9 90.3 90.	7 85.0	3 73.6	115,6 122,1 124.	NG. N292 RDG. ADHO58	132.4 SQ CM (:
DENTIFICATION - M	ANGLES MEAS	90, 100,			-	.7 91.1	0.16	0 93.6	.6 95.0	.6 96.5	.1 98.0 1	7.66.0	3 100.7	7 101.0	3 102.2 1	.2 101.7	. 9 101.6 1 . 1 100.1	4 98.8 1	5 92.6	89.6 89.0 87.0 83.9	78.8	.3 65.1	111.3 112.3 1	TAPE AERO.	RANGE 40.0 FT) ARC	
IDENTI		70. 80.				.2 86.	. 1 88.	5 89.	.6 94.	9.00 93.	.2 95.	. 9 95.	1 96.	2 100.	.86	. 2 98.	99.	9,1	5 93.	86.	. 1 79.	4	108.4 109.7 1	02-08-78 C41 ANECH CH	ACCUSTIC RA	
		50, 60,				.3 65.	.1 86.	5 88.	.1 89.	.2 90. 92.	.4 94.	5 93.	1.09	2 97.	. 1 96.	7 96.	.1 87. 94.	3 93.	7 89.	79.6 81.8	4 74.	ī Q	107.8 108.2	TEST DATE LOCATION	POINT 106	
		40,	60 C	80	0 1 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	82.		86.	87.	90.	90	93	98.	95.	92	95	. <u>.</u>	90.	84.	31500 83.1 40000 78.6	71.	30.	GASPL 106.4		MGDEL TEST 0100 01	

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										00	RIG F P	אנו	AL	PQ	AC UA)E	13	<u>.</u>									
																								CORRECTION - YES	19.78 49.40	FREE-JET SPEED # M/SEC (364.0 FPS)	
ILS FF. ARC), 160, PWL	7		'	1 100 7 142.1	108.6 147	.0 107.7 148.5	108.9 148	7 108.7 148.8	110.0 150	111.5 150	107.7 150	5 107.4 150	105.9 149	106.7 149	3 107.5 149 0 106.3 149	9 104.7 148 8 100.3 147	97.5 147	96.4	8 142.	.9 121.3 162.7	TURBULANCE CORR	3859 TAMB 19 29.7190 RELHUM 49	1) - MODEL 117.04	
SOUND PRESSURE LEVELS STD. DAY, SB 40.0 FT	FJ-400-FMGDL X01060	INLET, DEGREES	130. 140. 150				101.5 105.4 109	108.9	110.8 115.1 112	111.3 114.6 111	111.8 114.9	114.2 114.4 110	114.2 115.2 112	113.9 113.0 108	112.9 111.5 167	110.9 109.1 105	109.5 107.5 105	109.2 106.4 105	103.4 101.3 100	97.1 94.7 92	9 6	67.5	124.4 125.5 122	/SEC)	IALPHA	SIZE CM (20.52 SQ IN)	
TRANSFORMED MODEL SC. 70 PERCENT R.H. ST.	ĎENTIFICATI G N - FJ-400	ANGLES MEASURED FROM	100, 110, 120,				6	90.00	. / 93.15 . 0 95.15	6 97.3		0 101 9	8 102.9	1 104.5	6 105.4	2 105.2	0 105.2	. 9 103.8 . 9 102.4	3 100.0 1	1 92.3	86.3 87.5 82.0 81.2 80.4 88.1	- 4	.2 115.2 1	JET VELGCITY FREE JET DIAME	TAPE NG. N292 AERO. RDG. ADHO58	ARC 132.4 SQ	
FLIGHT TRA 59.0 DEG. F., 70	IDENT	ANGL	70. 80. 90.	:			1 88.2 88.	2 90.1 91.	7 96.4 94.	0 94.4 95.	5 97 2 97	4 96,8 98.	0 98.9 99.	7 103.5 103.	6 102.8 104.	7 102.5 103.	01.6 102.9 103.	01.5 103.0 103. 00.6 102.4 102.	2 101.0 100. 4 98.4 97.	4 93.1 92.	84.7 83.6 83.1	8 68.2 69.	112.4 113.3 113.6	LE FACTOR FREE	02-08-78 C41 ANECH CH	ACGUSTIC RANGE	
			40. 50: 60.				21.0	9 91.9 90.6	.9 92.4 91.9 .1 93.4 93.5	9 95.2 94.7	6 96.8 97.2	4 98.6 98.2	.0 101.1 99.2	. 4 105.0 103.6 1 .0 104.1 103.6 1	3 102.6 102.9 1	.7 163.1 102.8 1	.7 103.9 102.2 1	.0 101.9 102.3 % .7 101.6 101.0 1	.5 100.4 99.6 .7 97.1 96.5	2 92.4 93.8	2 84.1 84.9	.3 75.9 76.8 .8 66.3 67.6	3.1 113.7 113.1	MODEL/FULL SIZE SCALE INPUT 1.000 CALC.	TEST DATE LCCATION	TEST POINT 12	
			FREO	50 63 60	100	125 160 200	1					-						-		31500	50000	80000	OASPL	S SNITHII	d 15v	MGDEL 0100	97 10H

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						RIGIN OF PO	AL PA DR QU	GE 15 ALITY					SPEED 364.0 FPS)
٦. «		160, PWL	0 10 0 C	. 2 167.0 . 2 167.2 . 5 167.6 . 4 168.4	0 6 6 9	2.9 166.1 1.1 167.7 3.4 167.5 3.9 167.7		5 164. 164. 162.			1.5 186.9 4.7 5.8	TAMB 19.76 RELHUM 49.40	FREE-JET FULL 117.04 M/SEC (
H. STD. DAY, SB 2400,0 FT. 8 FJ-400-FMCDL X01065	DEGREES	140. 150.	91,8 92,5 93,9 89,5 93,9 88,5	93.4 92.7 86.8 80. 92.0 85.2 80. 92.3 85.7 81.	92.7 86.8 91.4 84.6 99.5 82.3 87.5 80.3	86.3 79.0 84.2 77.3 82.0 76.1 80.1 74.5	76.9 71.6 72.2 66.7 66.0 56.7	15.6	:		103.2 97.6 91 106.8 100.6 94 107.8 100.6 96	1ALPHA SB59 PAMB 29.7190	81ZE (1400.00 SQ IN) - F
IT R.H. STD. DAY, IN - FJ-400-FMÖDL	URED FROM INLET,	0, 120.	74,2 83,0 89,3 775,7 84,8 90,4 77,6 87,3 91,2	89,89 89,89 8 90,8 91 8 91,7 92	2 92.6 93 2 92.4 92 92.1 92 91.1 52	2 80.7 89.8 87.8 86.5	.5 83.9 82 .5 81.4 78 .6 74.9 74	. 5 7.1 50 . 9 41.1 30 . 6 13.8 0			95,6 102.3 103.3 10 03.5 108.5 108.6 10 03.6 109.1 109.2 10 8.260 FREQUENCY	NG. N292 RDG. ADH058	9032.2 SQ CH (1.
O DEG. F., 70 PERCENT IDENTIFICATION	ANGLES MEASURED	. 90. 100.	73.9 74.1 76.0 75.3 76.7 76.6	7 79.0 3 79.7 3 81.4 2 81.0	61.6 62.6 64.3 63.2 65.3 64.6	84.5 84.8 83.8 83.7 84.4 83.3 83.4 82.0	82,5 80.7 80.5 77.6 75.8 73.0	60.6 56.2 43.8 41.1 17.6 16.9			0 84.6 94.1 3 103.6 102.4 1 5 104.7 102.9 1 AMETER RATIO	TAPE CH AERO.	IC RANGE 2400.0 FT) SL
59,0 DEG		. 70.	.1 71.5 72. .4 72.0 74. .9 73.9 78.	6 6 6 6	.6 78.3 80. .7 81.1 83. .4 85.3 84. .4 83.0 83.	3 81.6 83. 8 81.6 83. 8 81.4 83.	.8 79.8 82. .6 77.7 80. .6 73.4 76.	.6 57.2 61. 9 42.2 43. 5 16.0 16.			92.5 82.6 9 00.7 101.2 10 01.4 102.3 10	DATE 02-08-78 Ition C41 Anech	ACGUSTIC 731.5 M (240
		40. 50.	69.6 72,3 70.8 72.8 72.0 73.7	125 75.5 75.4 160 76.0 76.8 200 75.6 79.4 250 78.3 78.1	79.5 80.4 81.4 83.9 79.5 82.5 78.3 60.7	77.8 80.2 77.7 80.5 77.2 80.9 73.7 78.4	72.4 77.5 69.4 75.0 60.2 69.3	0 29.7	12500 16000 20000 25000	31500 40000 50000 60000 80000	69.3 91.7 95.8 99.3 1 95,8 99.3 1	TEST DATE LOCATION	MODEL TEST POINT 0100 0106

															DF DF	: F) ()	AI OF	L (PA QU	GE	: 1	3 Y				-t			SPEED 0. FPS)	
																													14,36	FREE-JET 0. M/SEC (
70		160.	ŧ					107.1 140.2	107.5 141.4	-	107.8 143.4	40	104.3 142.1	141			103.3 141.4				i	- ,	-	•		-1	68.0 133.5 60.0 133.6	117.5 155.0	TAME 88 RELHUM	ğ	
1100L X01070	DEOREES	140, 150,						03.8 106.5	04.6 108.1	4	07.6 109.4		05.5 105.2	•	,		2 2	1	2 3	101.2 103.4	102	96.1 97.5	9	9 3	7 2	74	67.5 67.9 63.0 60.2	117.2 118.5	1ALPHA \$859 PAMB 29,6989	! 🔀	<u> </u>
FJ-ZER-FMOO	FROM INCET, D	120, 130,						1 7 88 7 1	,	,	-1	19, kg	105.	104.5	104.7	23	102.7	102.0	102,3	101.6	100,8					1	73,3 66.7 56,2 62.1	114.4 116.0 1	N291 1/ ADH051		
4 - MODEL BACKBROUND	HEASURED	100. 110.						89.3	20.7	91.3	92.6	2,0	96.6	97.7	96,1	98,2	980	98.9	96,90	97.8	97.5	96.	82.0	67.0	75.0	71.6	65,7 65,2 58,7 59,4	9 109.8	TAPE NO. N. AERO. RDG. AI	132,	
I DENT I FICATION	AMOLES	80, 90, 10						8 86.8	3 67.5	3 88.2	7 89.3	4,090,4	92.8	3 93.9	6.4.3	4,00	2 6	2 94,0	0 t 2 t 4 t	94,9	9 95,3	4 C.	91.8	98.7	80.7	73.0	63,5 64,6 6 56,5 59,7 5	1.4 106.2 106	¥5	. RANGE 40.0 FT)	
01		. 76.						82.9 84	84.5 85	84.5 85	85.6 87	66,9	85.6 90	90.2 91	90.6 91	90,9	5 10	90.9 92	90,00	9 6	90,3 92	8 9 9 S	62,3	20 20 20	75,2	68.8	,9 62,1 63 ,0 57,6 56	6 102.6 104	TE 02-07-78	2.2 ACC	
		50, 60						84.6	83.7	84.8	85.0	800	89.3	80.8	89.3	000	91.6	91.3	90,7	90'08 90'08	88.5	85.2 87	82.5 84	76.6 81	69.7 73	62.8 66	57,3 59 50,6 54	101.9 102.	TEST DATE		
		40.	7.8E0	80	100	125	160	250 79.0			1	630 63,6			1600 88,2			4000 89,3		6300 87:1 6000 87:1	l		20000 74.0		40000 65.8		63000 53.0 80000 47.1	0ASPL 59,2		MODEL TEST 0160 01	9

									٠	0	RIC F	GIN PO	AL OF	- i	PA(QU	GE	: 1: :T	3								CORRECTION - YES	.36	FREE-JET SPEED M/SEC (0, FPS)	7	edes).
T. ARC			160. PWI				107.1 140.2	141		143	7 - C	102.9 141.9	2	9 141	— — — —	4	4	9 m	9 139	- - -	3 137	.6 137 7 136	74.1 134.2	0.00	117.5 155.0	REFRACTION CORR TURBULANCE CORR	TAMB 14	- MODEL 0.		
STD. DAY, SB 40.0 FT.	3DL X01070	T, DEGREES	30. 140. 150.				9.4 103.8 106.5	0 104.6	9 107.6	2 107.9 1	.105.5	7 105.4 105	5 104.0 1	7 102.9 1	.7 102.4 1	3 102.2 104	0 102.3	.6 101.2 .8 100.0 1	0 97.7	5 82.3 94.	.8 88.7 90.	5 86.2 34.		.1 63.0 60.	.0 117.2 118.5	(IN) 48,00	1ALPHA SB59 PAMB 29.6989	SIZE (20.62 SQ IN)		•
RODEL R. H.	IÓN - FJ-ZER-FMÖDL	ASURED FROM INLET,	110. 120. 13				a	7 96.71	.6 98.81	7 100.9 1	.6 103.1	<u>.</u> -	2 103.3	8 102.7 1	.3 103.5	9 102.8	.4 102.8	.8 102.0 1 .5 101.1 1	.1 98.7	0 94.3	.0 91.8	9 87.8	71.6 77.6 75	4 66.2	109.8 114.4 116	VELGCITY (FT/SE JET DIAMETER (1	E NG. N291 RDG. ADHO51	132,4 SQ CM (
FLIGHT TRANSFORMED DEG. F., 70 PERCENT	IDENTIFICATI	ANGLES MEA	90. 100.				86.8 88.	87.9 88.	7 89.3 89.	90.4 91.	92.8 93.	3 93.9 94. 7 94.3 98	3 93.4 95.	9 94.3 95.	94.3	94.4 95.	95.3 95.	94.8 95. 95.3 95.	4 93.3 93.	5 91.8 90.	88.7 86.	82.8 82.	5 73.0 71.9	59.7 58.	.4 106.2 106.9	FREE JET FREE	TAPE CH AERO.	RANGE 40.0 FT) ARC		
59.0 DEG			60. 70. 80				.8 82.9	9 84.3	95.6	2 86.9	9.68 9.	3 90.2	4 90.9	1 91.3 91	.6 91.8 .4 90.9	6.06 2.	.1 91.6	. 6 91.0 . 8 90.3	0 89.4 91	0 85.9	.8 81.9	4 75.2	66.0 68.8 71.	0 57.6	102.6 102.6 104.	ZE SCALE FACTOR CALC. 1.000	DATE 02-07-78 Tion C41 ANECH	ACGUSTIC 12.2 M C 4		
			40. 50.				79.0 84.8	80.4 83.7	83.5 85.0	83.6 86.9	88.0 89.3	86,9 90,9 88,2 89,3	88.6 90.9	87.8 90.1	89.3 91.8 89.3 91.3	88.8 90.7	87.5 90.9	84.7 63.5	80.0 85.2	74.0 82.5	72.8 78.8	65 A 69 7	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47.1 50.8	99.2 101.9 10	MGDEL/FULL SIZ INFUT 1.000	TEST DATE LOCATION	TEST PGINT 0 0107		Market and the second s
			FREQ	9 9 9 9	100	220	200 220	315	200	630	1000	1250	2000	2500	4000	2000	9 900	10000	12500	20000				<u>.</u>	MASPL MASPL	S SNITNI	NG 3544	MODEL 0100	ENOH	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

											0 0)RIO F	GII	A <i>M</i>	L R	F.Q	AG UA	E	N.												SPEED 0. FPS)	
					,		,				•																		14.36	10, 50	FREE-JET SP O. M/SEC (
		160. PWL	9 16	9	3 161	7 160	74.8 160.3	3 159	8 159 183	9 6	4 160	3 159	2 158	3 157	4 156	2 155	2.00	151.8	-1							88.3 173.0 88.6	89.7		TAMB		- FULL	
X01075	DEGREES	140. 150.		88	8	<u>e</u> <u>e</u>	83.3 79.9	78	7 4	77	92	1 6	89	() () ()	20	38	_) :								94.9 93.4	94	Y SHIFT9	ALPHA SB59	- 1	ZE . OO SQ IN)	
FJ-ZER-FMØDL	FROM INLET, DE	. 130.	84.7	92.0	85.8	94.6	84 84 85	82.9	81.00 60.00	80.4	79.6	77.8	75.4	73.8 69	62.0	56.0	25.7									95.3	99.1	FREQUENCY			S1ZE CM (1400.00	
ı	URED FROM	110. 120	73.5 80.2	9 9	8.	9 0	79.9 84.2	1.0	0.4		10 10	. 0.	83	4 C	9	9.7	47.2 47.5 29 1 30 5	3.4								90.6 94.6		8.260	. NG. N291		9032.2 SQ	
DENTIFICATION	ANGLES MEASURED	100.	71.7	74.1	75.1	7.07 7.04 9.09	40	27.6	77.1	70.0 70.0	76.6	78.0	73.3	0 0 0 0 0 0	64.6	57.4	47.0	4.7								55 68 . 2 5 7 5 6	98	RATIO	Ä	AERO. N	T) SL	
IDEN	A	80. 90.	17.0	9 y	6 74.	97.	73.9 76.	6 76.	3 73.	5 4 6 15	3 76.	, 6 6	5 73.	2 2 2 2 2 2 2	.0 67.	.0 58.	.0 2.5									85.7 87.	0	DIAMETER	:	ANECH CH	ACCUSTIC RANGE 5 M (2400,0 FT)	
		. 70.	.99	69	70.	72	727.4	5 72.	7 72.	6 71.	3 71.		69.	9 67.	9 58.	54.	43.	0	- 1							83.3	90.		05-0	<u> </u>	ACOUS 731.5 M (
		20. 60	4.	<u>د</u> س	Q.	0	69.2 71.	၁ဗ	6 71	۸.	ب م	n n	~	.0 64	- 0	10	<u>ه</u> د	Ţ								80.6 82.	0		TEST DATE	LOCATIC	POINT 107	
		40.	61.1	62.4 62.4	65.4	90.00	66.4	65.2	65.2	65. 7 64. 8	63.0	0 0 0 0 0 0	55.4	52.7	40.0	31.6	17.3		0	0 (0	00	00	0	76	1				TEST 0 01	
		FRF	i i		10	<u> </u>	500	316	41	0 0 0	80	100	160	200	9.5 9.5 9.5	400	800	000	10000	1250	20002	2500	9150 4000 000	50000	9000	OASP	PNLT	-			MGDEL. 0100	101

	A Proposition of the Community of the Co									OR OF	IGII P(N	AL OR	PA QL	GI IAI	E I	3									ET SPEED (289.0)		
																									22.10 48.40	98		
.0 FT. ARC K01080 K01300		160.	P¥F	-			6 137	0.138	6 137	2 137	8 137	. 9 137	. 3 137 6 136	6 136	4 136	.6 136	. 2 137 137	9 137	6	8 136	. 5 135 25	1 132	<u> </u>	106.4 150.6	TAMB SO RELHUM	19 (1)&1		
•	ES	40, 150,					-	.103.	0 102.	.3 100.	9.6	1 93.	8 G	9	3 89	4.89.		2 92.	6	5 82.	. 56 7.69.	4 66.	63,1 60.6 5 7.1 51.3	.5 110.5	ALPHA SB59 PAMB 29.6620	9		
FJ-306-FYGDL	INLET,	130.					94.4	96.1	100.4	100.5	101.22	101.2 1	100.0	100.7	98.4	98.6	8 6 8 6 8 6	99.0	8.9	89.2	87.4	73.4	.9 65.3 6 6 58.6 8	2 112,4 112	- g	200		- Acceptor
MODEL F.	ASURED FROM	110. 120					6	a r		_	N	6	– د و	94.6	93.0	9.5	9.00	95.7	93.6	36.7	94.2	70.9	64.3 71 57.7 64	106.5 111	E NC. N292 RDG. ADHO6	5	ď	
CATION -	ANGLES ME	90. 100.					.5 83.	6 83.	.00	.6 86.	, 0	. 1 90.	6 6 6 6	92.	2 92.	.693.	. ce 93.	.7 92. 5 91		2.88	.5 81.	.0 71.	64,1 65,2 58,0 57,3	103.0 103.9	TAPE	RANGE ABC	1	
IDENTIFI		70. 80.					.5 79.		3 6	.2 89.	9.00	.9 87.	. 1 87.	.88	88	.4 89.	. 7 . 8 . 90.	.55 90.	.1 89.	9 86.	4. 80.	8 70.	2.9 63.7 7.4 56.1	.3 101.2	2-08-78 11 ANECH CH	COUSTIC R		
		60. 7					78.0	79.0	80.08	82.6	83.0	86.1	85.5 86.5	86.3	87.5	87.7	88.5	87.9	86.55	61.1	78.8	66.3	9 61.0 62 1 54.4 57	9 98.8 99	ST DATE 02	3	i	
		40. 50.					.1 78.	0,0	.2 80.	.8 81.	.4 81. .7 82.	.1 85.	0 0 0 0 0 0 0 0 0 0	.3	. 7 86.	ය. මේ	.6 87. .4 87.	.6 86. 1 A6	7 85	7 78.	7 75.	5 63.	56,9 57,8 50,6 51,4	96.2 97.9	TEST	TEST POINT	5	
			FREG	8 8 8	80	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	250	315	00 to	630	1000	1250	1600	2500	4000	2000	6300 8000	10000	16000	000 20	00°	00	63000	OASPL		MGDEL.	3	F

									OF	RIGI P	N OC	AL OR	đị Đị	Gi Al											SPEED 289, 0 FPS)
														•									CORRECTI on - YES Correcti on - Yes	22.10 48.40	FREE-JET SF 66.09 M/SEC (26
2			Ž			133.2		100 E	7	135	7		136.5		128.0	139	139		137	135.		151.4	REFRACTION (TURBULANCE)	TAMB	
FT. ARC			160.				80 G		8		80	8	8 0	92	4 CB	8 8	93.2	98	25		54	106.9	REFRA		- MODEL
40.0 FT	XO10%0	ES	150.			99.6		9 6	86	9 Q	- 1	9 .	91.9	2	95.9	93.	92.	8	2 4		2	109.4	000	\$859 29,6620	SO 1N)
20		DEGREES	140.			96.4	20		8	3 3	6	6	96.2	6	6	9 6		98	8 2 76	_	62	111.2	289.00 48.00	IALPHA	SIZE 20.62
). DAY,	FJ-300-FMODL	INLET,	130.			92.6	2.7.0	98.2	8		36		98.1	9.88		99	96.3	6		71.	56.	111.8	(FT/SEC) ETER (IN)	N	₩ 5
R.H. STD.	FJ-30(FROM	120	3			6 9 2		97		- 1	99.8		i		ı	97.	16		78.6		3 111.5	VELOCITY (FT JET DIAMETER	N292 ADH062	2.4 80
<u>-</u>	Tion -	ANGLES MEASURED FROM INLET	. 110				8 83 53	8 85.5	68		93	9 6	8 8 8	8		56	94	88	70.0	72	58.	7 106.3	VELC	R NG.	132
, 70 PERCEN	DENTIFICATION	OLES M	100			91	89 89 83 83	8 8	67	9 6 9	9	92	0 0 0	8	9 0	56	5 93.1 2 90.9	88	5 4 6 8	73	29	104.	FREE JET FREE	TAPE AERG.	r) ARC
DEG. F.,	DEN	Ž	9			18	6 62.	9 8 5 5	97.	9 6	90	96	92.	93.	9 9	940	7 94.	90	8 60	5.78	.19	0 105.0		동	RANGE 40.0 FT)
os. o Ded						8	8 25.	9.0	86.	88.	99	90	90.	16	93.	93.	93.	90	82.	74.	.09	9 104.	FACTOR	-08-78 1 ANECH	ACCUSTIC
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			40 FREG	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	16.5	- 1	80. -	8 2.	96.	88	89.	89.	89 90.	69.	9 6	90	89.	9	3, 3,		55.	101.5	MODE I N		DEL TES 0100

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									OF	NG: P	IN CO	AL	P. Q	AG UA	E LL:	1 Y		• -								.T SPEED (381.0 FPS)	
																									22.64	FREE-JET 116.13 M/SEC (
				Ę	 - 	34.0	35,0	135.5	135.4	135.4	35.4	135.2	135.2 2.8	134.0	135.3	136.10	135.9	136.7	136.1	135.4 135.3	134.4	132.2	131.1	149.3	TAMB		
10,011	0 0		160.	•		6.88	98.0	91.3	87.9	94.0	83.8		82.3				٠.				69.2	٠l	40.00	03,9		ğ	-
-	X01090 X01400		50.			4	0.00 0.00 0.00				-1								ı			- 1		07.9 1	\$8 59 29.6570	S	
ŕ	200	DEGREES	140. 1			97.7.10							25.4						- 1			- 1		0.4 10	N. P.K.	3	
	FJ-400-FHGDL FJB400-FHGDL		130. 1			1	94.9	-		•	- 1								- 1			- 1		.2 11	. <u>इ</u> n	60 (4	-
		M INLET,					- 1	0	, ,		0	F 10	ب م	1	e e	, 4	e (40	6	0 4		۰	. 0	.0 111	63 063	E C	
	HODEL BACKGROUND	D FROM	120			1	6 a	1		G	6	9 9	8 0	96	86	9 09	98	9 6	92	00 6	5	2		4 110	N292 ADH063	32.4 80	
-	- MODE BACK	MEASURED	110			1	3 83.7	ı			-		1 93.3									. 1		0 105.	PE NO.		
, /O TENCEIN	- 1		100			, ,	82.6	1											.,,					103.0	TAPE) ARC	
	IFICATION	ANGLES	80			79.0	80.0	82.3	83.00 80.00	86.1	87.5	87.8	88.5	90,4	90,0	91.5	92.2	9.10	89.7	67.78 4.7.6	79.4	72.2	36.3	102.1	3	RANGE 10.0 FT)	
	IDENTI		80,			77.3	78.7	82.1	90,7	63.7	84.9	65.4	86.9	87.5	839 4,0	89.4	89,8	88.8	88.7	80 80 80 80 80 80 80 80 80 80 80 80 80 8	78.5	7.07	55.6	100.3	. 1		
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			20			وا	78.5 7	_	ლ ი	100	e	n 6	Ö (101	, ,	0 1	3.4		a		ماه	9.4	6.6 9	TEST DATE	PGINT 09	
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	70 PERCENT R.H. STD. DAY, SB	IDENTIFICATION - FJ-400-FMODL X01090	ANGLES MEASURED FROM INLET, DEGREES	40. 50, 60, 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL			100 100	091		80.0 82.0 80.5 80.2 78.7 79.8 79.8 79.8 87.4 91.2 94.7 37.5 95.	81,7 82,6 81,8 80,8 80,6 81,6 81,7 82,7 90,5 96,2 98,5 98,2 93,7 1	82.6 83.1 82.5 80.8 83.9 82.6 82.7 83.3 92.5 96.6 98.0 95.4 91.	84.2 84.7 83.2 82.6 93.1 84.2 83.9 85.6 94.4 98.3 98.1 93.8 93.2 1	88.4 87.0 87.2 87.1 88.1 85.6 86.7 86.9 88.2 96.3 98.1 87.0 90.8 91.9 134	88.1 86.5 87.4 85.6 87.0 88.2 89.8 97.2 98.0 96.8 90.1 92.0 134	88.0 89.4 89.4 87.6 88.4 89.6 89.1 90.7 97.6 98.2 85.5 90.0 81.5 134	90,9 89,1 89,4 88,4 87,9 89,0 90,0 90,8 98,0 98,3 84,8 90,4 91,4 135 89,6 89,6 89,6 88,4 89,6 89,9 91,3 92,2 99,4 97,0 94,5 90,6 91,6 135	90.2 90.3 90.4 90.0 90.4 91.9 92.4 93.6 99.4 97.0 94.6 90.0 91.2 136	000 90.7 90.9 91.1 90.7 90.9 92.7 92.8 93.8 99.5 98.0 93.9 90.1 91.2 136.4	92.0 91.0 91.0 91.0 92.0 92.0 94.0 97.7 100.1 94.1 95.7 100.1 92.0 92.0 10.1 92.0 92.0 92.0 10.1 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	92 1 92 0 93 4 99 9 93 3 94 6 95 1 99 8 99 0 95 0 92 6 93 8 138	91.2 92.2 92.2 91.9 94.3 95.2 93.9 95.6 98.7 98.7 95.4 94.3 96.7 138	.2 93.9 93.7 92.4 93.3 94.2 93.7 95.1 98.3 58.6 94.6 94.4 97.1 139	81.2 83.0 81.6 81.4 83.2 84.0 92.6 84.1 90.7 80.6 82.4 93.1 80.1 138 80 6 01 5 31 4 90 8 93 1 92 7 90 6 92 1 96.3 93.3 80.0 89.6 94.5 140	84.2 88.2 83.1 88.3 90.3 90.4 88.2 87.9 91.3 \$1.4 87.3 88.1 89.7 139	82.7 83.7 84.9 84.0 84.4 84.5 84.0 84.6 87.9 86.7 83.6 84.9 86.5 138	75.3 74.7 76.6 76.1 75.2 75.2 73.4 72.4 79.3 72.9 70.8 74.0 75.6 136	67.4 67.3 60.5 69.0 66.7 66.9 67.3 65.4 72.8 66.9 66.3 66.9 68.9 135	.2 57.4 59.3 60.3 59.6 61.3 59.4 59.0 63.0 57.1 56.5 57.1 59.1 133	SPL 102.7 103.2 103.2 102.4 103.9 104.5 104.3 105.4 110.6 110.6 108.9 106.9 107.0 150.9	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 381.00 REFRACTION CORRECTION - YES INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (FN) 48.00 TURBULANCE CORRECTION - YES	00-00-70 TABE NA NOOS IAI BHA 9850 TAMP 22	н сн 🗚	- TEST POINT ACGUSTIC RANGE SIZE SIZE FREE-JET SIZE 12.2 m (40.0 FT) ARC 132.4 SQ CM (20.52 SQ IN) - MODEL 116.13 M/SEC (ATT.		
)6				FRE	•	· •	-		ัล	Ö	ა <u>4</u>	ŭ	6	ğ	12	<u>ğ</u>	, S	316	40	500	80.0	1000	125(0000	2500	31500	5000	(0)	8000	OASPL				MODEL	1		

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																															ET SPEED : (381,0 FPS)	
,			Ž	51.7	e	~ 6	4.	60.0	7.4	3.8	9 0	5.7	56.8	9.5	3.0	- 4.	10.	5.4) - S	- O 10	· F					7			UNB 22.64 TUM 47.80		FREE-JET 116.13 M/SEC (
3F			60.	-	0	4 6	7	ь. С.	6 /	- 1	3.7 164	6	4 O	41	2	0 0	6	-	- T	50 50		-				75.3 169.	1		TAMB		FELL	
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H. STD. DAY,	FJ-400-FMÖDL	FROM INLET	120.	-	0	o ru	9	4 0	۰۲	۰ ا	20.00	واه	۰,	4	اری	<u>ه</u> د	ĸ,	a	D (7	4						90.3	1	FRE	N292 ADH063		SOCA	
Я.	ا 7	RED	110.	0	10	0 4	0.3		4 60	3.4	6 4 6 4	0.0	0 0	4.6	5.5	, o	0.4	0	. 0	9			-			9.00	3 60	8.260	00	ĺ	9032.2	-
) PERCENT	DENTIFICATION	ANGLES MEASI	100.								7.0	40	y	ر	-	. 0	N	- 1						: :		92.0	9 00	RATIG	TAPE ERG. R		SL	
02 ''	DENTIF	ANGLE	90.		•			•		٠.	4.0				-1			- 1								4.0			<		INGE 0 FT)	
.O DEG. F., 70	-		90					_			72.1	- 6		_	- 4									•		84.7	100	DIAMETER	8-78 ANECH CH		ACOUSTIC RANGE 5 M (2400.0 FT	-
59.0			70.								2. 2. 3. 3.															82.5			02-08 C41 AN		ACOUS 1.5 M (
			90.					•			20.0	٠.I			-4			٠.								62.4			TEST DATE LOCATION		73	
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			₫	DENTIFICATION	CATION	. E	FJ-ZER-FMGDL X01		X01100	O .							
				ANGLES MEASU	MEASU	JRED FROM	ROM INLET,	1	DEGREES								
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6 0	1 69. 2 119.	0 0	6 4	0 9	0 4	1	10 GI	0 0	က တ	6 6	0 1	149.6					
MODEL/FULL INPUT 1.	LL SIZE SCALE 1.000 CALC.	CALE FACTOR	TOR	FREE	JET VE FREE JE	ELOCIT ET DIA	VELGCITY (FT/SEC) Jet diameter (IN)		46 .00		REFRACTION Turbulance	1	CORRECTION Correction	- YES			
	TEST DATE LOCATION	02-07-78 C41 ANECH	76 IECH CH	AE	TAPE NAERO	RDG.	N291 ADH042	A.	IALPHA S	3859 29, 6869	ļ	TAMB	16.88 43.40				
DEL TEST PO 0100 0110	TNT	ACGUS 12.2 M (ACGUSTIC RANGE 2 M (40.0 FT)		ARC	132.4	80 CH	\$12	812E 20.52 SQ	2	MODEL	ر ا	FREE-JET O, M/SEC (JET SPEED	:0 FPS)		

												0	RIQ F I	31N PO(AL	. F	PA(3E	IS TY										SPEED 0, FP8)	
•								-					N1								e a							16.68	FREE-JET SF 0. M/SEC (
URE LEVELS	T. SL			160. PWI	1 17	4 -	.8 176.		87.3 177.1 84.5 177.0	1 176		9 174	0 0	8 173.	171	1 170.	7 168	168	186.6	100					100.3 188.2	100.5		TAMB 69 RELHUM	- FULL	
SOUND PRESSURE	B 2400,0 F	X01105	DEGREES	140. 150.	6	8 50 9 60	1 99	6 97.	02.6 95.9	5	6 .02	85.	8 63.	T	71.0	99 0	43.	7 24.	2 2						.9 107.	15.1 107.9	Y SHIFT -9	ALPHA SB59 PAMB 29.6869	SQ IN	
AND EXTRAPOLATED	STD. DAY, S	FJ-ZER-FMÖDL	FROM INLET, D	120. 130.	.5 97.7 1	.1 100.6 1	6 101.6 1	0 101.3	99.2 101.8 1 99.8 102.9 1	.4 102.7	. 3 . 39.55 . 3 . 39.55	.8 98.4	7 86.7 83.0	6.00	4 88.8	.1 83.7	7 76.6	8 57.0	6 6.1						9.4 112.2 1	0 117	FREQUENCY	N291 IA ADH042	\$12E SQ CM (1400.00	*
4	Z	CATION - FJ-	MEASURED FR	. 110.	.7 83.7	6 87.4	9 88 6	4 91.1	.1 92.1	.6 92.6	. 1 . 93.3 . 0.3.3	.1 94.3		91.6	5 86.8	3 83.3	76.5	60.1	7 17.3						.6 103.7 109. E 110.2 11E	0 110.3	8.260	P. S.	9032.2	
TRANSFORMED, SCALE	. F., 70 PE	IDENTIFIC	ANGLES	90. 100	80.7 81	83.6 84	84.6 85	68.1 68	9 67.9 69 8 88.5 68	92.9 90	91.4 93	91.2 92	90.1.00	90.2 88	87.5 85	84.7 81	79.8 77	65.0 59	21.6 20						5 101.8 101.	110.9	AMETER RATIO	TAPE CH AERG'	1C RANGE 2400.0 FT) SL	
FLIGHT TRANS	59.0 DEG			70. 80	7 78.	4 63.	6 82.	9 67.	92.2 90.4	1 92.	ы 89.	8 89.	96	88	85.	2 83.	2 79.	3 64	9 .						99.9 100.6	06.3 109.	/10	02-07-78 C41 ANECH	ACOUST	
I I				50. 60.	.9 76.	30.	5 79.	.0 87.	90.4 90.8 91.0 92.4	0.91	. 1 . 87.	.0 86.	4 85	6 84.	8 79.	.2 76.	5 71.	2 53.	; 						98.2 99.4	0 105.		TEST DATE LGCATION	PGINT 731	
				Ġ	71.3	73.7	78.4	82.8	250 91.9 250 88.7	86.5	83.3	82.3	79.5	77.1	70.7	63.4	58.6 50.1	35.6	<u>.</u>	2500	000	000	0000	. 000	96.5	102.21	:		TEST 0 01	
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		٧					:																		17.78	Ö		
				Ę				149.8	163.3	154.2	100 100 100 100 100	156.7	157.4 FB R	159.6	158.9	165.9	20.0	153.8	161.9	149.4	149.4 148.6	146.9	146.3 8.3	168.9	TAMB	. 66		
40.0 FT. ARC	X01110 X01300		160.					116.6	9	=	=======================================	108	107	98	107	103	20.5	8	9 60 6	8		76.		123.9		Ş		
40,0		3 3	. 150.						20.		- 50	=	118		115	= 5	108	8	.4 102.2	66	2 Q	79	. ii	1 129.5	A SB59	8	·	
DAY, SB	J-300-FM0DI JB300-FM0DI	T, DEGREES	0, 140				:	0.113		9 120	3 183	6 123	.5 125	182	0.0	9 180	7117	6 11	500	2 101		98 6.	- 5	.9 134.	I ALPHA PAMB	\$12E 20.62		
H. STD. DA	11 11	M INLET,	120. 130		j			5 107	10	116	2 - 2	119	118	123	124	61.0	100	116	09.6	104	.6 103 .0 97	18 8		3.3 131	N292 ADH056	S CM		
R.H.	MODEL BACKGROUND	EASURED FROM	110. 1				:		- 4-	- -		-	۔ا۔			- v		- ,	06.7 109	-	6.0 88 10.8 95	ı		21.4 128		32		
70 PERCENT R.H.	•]	Σ	100.				•		a: co	4	00	Q .	0		G 10		- , ,- 1	- 0	03.00	0 00	N O		. o	18.5	TAPE NG	ARC		
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			. 60					80	92.	8	9 6	100	9	9 =	107	20.5	36.	105	99.60 0 99.60	93.	9 95	77.	63.	9 116.4	TEST DATE	5		
			50				ļ	69	900	16	 	66	105	108.	105.	103	20.00	101		6	83.	75.	62	9 115.	Ä	TEST POINT 0111		
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							OR	igit PC	AL	. PI	GE	: IS		•				- YES - YES		JET SPEED C (289.0 FPS)
ARC). PWL							-		-		-	.9 152.3		5 149.8	7 147.7	REFRACTION CORRECTION Turbulance correction	TAMB 17.78 RELHUM 62.60	FREE-JET
SB 40.0 FT. X01110	DEGREES	140. 150. 160		, 111.1 114.6 114.	116.7 116.0 115	120.1 119.6 116 122.2 121.1 116	122.8 120.4 116	124.6 119.7 115 194.3 118.2 114	122.5 116.4 113	119.8 113.7 111	118.2 111.5 109	116.3 109.0 107	111.8 106.7 105	105.0 100.9 102	97.8 92.0 94 91.9 87.3 88	63.4 75.8	73.6 66. 133.2 129.	289.00 48.00	IALPHA SB59 PAMB 29.7230	817E 20.62 SQ IN) - MC
ENT R.H. STD. DAY, ION - FJ-300-FMODL	ASURED FROM INLET,	110. 120. 130.		101	112	109.3	113.6	9 60 6	9.0	7.00	117.9	116.1	112.2	108	100	. 8 89.4 . 8 89.4	1 128.2	OCITY (FT/SE DIAMETER (1	NC. N292 RDG. ADH056	132.4 SQ CM (
F., 70 PERC	ANGLES MEAS	80. 90. 100.		.1 93.3 94.	.3 94.0 .0 95.1	. 9 96.2 96. .4 97.6 98.	.0 99.7 99.	7 104.1	3 105.3 104.	5 111.1 110.	8 108.2 108.	108.6	5 107.1 106.	5 105.3 102.	.1 97.1 95. .2 95.0 90.	4 78.4	3 72.5 71.	FREE JET	TAPE H CH AERG.	IC RANGE 40.0 FT) ARC
59.0 DEG		60. 70. B		7 92.4	7 9 2. 2 93.	6 95.4 96.4	9 98.4	9 103.2	12.0 111.9	8 107.9	0 107.2	5 106.9 1	3 105.3 1	7 102.7	96, 6 96, 6 97, 91, 8 95, 5	4 77.6	8 73.8	ZE SCALE FACT	FEST DATE 02-08-78 LOCATION C41 ANECH	F ACOUSTI
		40. 50. FREG	50 63 80 100	91.5 94.	91.5 93.3	95.7 95.	.78 7.96	103.8 102.	114.4 113.	109.4	107.5 107.	106.0 106.	103.3 105.	100.3 102.	31500 93,5 95,4 40000 88.5 89.2	84.7 85. 76.6 77.	67.8 67.	MODEL./FUL	TEST	MODEL TEST POINT 0100 0111

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

MILITAN JOHNS-OCE-19 - NOTIFE-19-19-19-19-19-19-19-19-19-19-19-19-19-	
ANGLES MEASURED FROM INLET, DEGREES	
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75.5 78.0 79.3 80.5 80.6 82.4 82.1 84.4 95.0 98.5 101.5 96.9 89.3 17	
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PNLT 103,0 104,8 107,1 107,3 109.6 110,2 107,6 109,0 114,7 115,4 114,0 105,9	
DIAMETER RATIO 8, 260 FREQUENCY SHIFT -9	•
TEST DATE 02-08-78 TAPE NG. N292 TALPHA SB59 TAMG 17.78 LGCATION C41 ANECH CH AERG, RDG. ADHOS6 PAMB 29.7230 RELHUM 52.80	
HODEL TEST POINT ACOUSTIC RANGE 81ZE 82 CM (1400.00 80 IN) - FULL 88,09 M/8/2C (289,0 FPS)	•
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	UNTRANSFORMED MODEL SOUIND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-400-FMODL X01120 BACKGROUND FJB40G-FMODL X01400	40, 50, 60, 70, 80, 90, 100, 310, 120, 130, 140. 150, 160,					85.4 89.2 87.7 89.0 89.9 92.0 94.9 97.1 102.1 106.9 112.3 116.0 115.9 1	87.1 88.6 89.1 89.4 91.5 93.6 94.0 96.4 104.2 109.7 114.1 117.6 116.7 150.	56.8 69.7 91.1 90.2 92.1 94.4 95.6 97.0 105.0 116.6 117.7 116.6 114.6 1 89.2 90.5 91.6 92.3 93.1 95.3 96.9 99.1 107.0 116.1 120.0 118.7 112.1 1	91.1 91.9 93.4 93.2 95.0 96.9 98.0 101.4 109.4 117.2 121.1 118.0 109.4 154.	94.4 94.4 90.2 90.0 90.0 96.0 97.8 99.3 103.2 111.8 118.0 122.4 117.1 108.0 199.0 99.0 99.0 98.3 98.1 98.1 98.1 99.8 100.2 104.6 113.5 118.6 121.7 115.7 106.6 1	103,3 104,6 103,7 100,9 101,0 101,9 102,5 106,2 115,1 118,7 123,4 115,5 105,4 156,	106.9 106.8 107.8 106.1 102.4 103.8 104.4 108.1 117.0 120.4 124.4 115.6 107.1 157.	101.5 103.1 104.8 105.8 107.4 109.6 107.4 110.3 119.0 122.7 122.1 114.8 106.6 1	101.1 102.4 102.1 103.6 104.7 107.8 109.7 110.9 118.8 122.0 120.9 113.9 106.3 157.	99.6 101.2 102.2 101.7 103.0 105.6 108.5 111.5 118.4 120.1 118.8 111.4 103.9 155 99.7 100.3 101.3 101.8 102.9 105.2 107.9 111.6 117.2 119.2 118.1 109.6 102.5 155	99.2 100.6 101.6 101.3 103.1 106.2 107.4 111.3 116.7 118.5 116.5	97.5 99.8 100.7 100.8 103.4 105.3 105.7 109.8 114.4 116.4 113.0 105.6 99.2 153	95.3 98.1 98.6 99.9 102.2 104.1 104.8 107.6 112.3 113.0 111.0 103.3 97.5 151 93.5 96.7 98.1 99.4 101.8 103.8 103.0 106.7 109.3 112.3 108.7 102.2 95.9 151	89.7 94.3 84.6 96.7 100.5 102.1 100.2 103.3 106.6 108.4 105.3 98.8 94.1 150	88.3 90.4 92.6 92.7 97.8 99.2 97.5 97.8 104.1 103.7 100.5 95.3 92.4 148	88.3 88.0 84.8 86.0 90.5 91.2 88.1 90.6 95.0 96.4 91.9 85.5 82.5 147	74,4 74,9 77.6 79.3 82.0 83.5 82.5 83,4 90,9 90,1 85.7 80,0 76,4 146	68.7 68.6 71.0 72.9 73.8 74.9 77.0 76.8 86.9 84.6 79.1 73.9 70.5 146 62.2 61.4 64.6 67.6 66.8 69.8 68.8 71.2 81.3 80.1 74.1 65.1 62.5 147	112.8 113.9 114.6 114.6 115.3 117.0 117.8 121,0 128.1 131.4 132.9 127.8 122.3 168.1	TEST DATE 02-08-78 TAPE NO, N292 IALPHA SB59 TAMB 17 LOCATION C41 ANECH CH AERO, RDG, ADHOSS PAMB 29.7170 RELHUM 62	TEST POINT ACGUSTIC RANGE S12E S1	
14				FRED 50 63	90	125	160	250	315	₩ 00%	630	1000	1250	1600	2500	3150	2 2 0 0 0 0 0 0 0	6300	10000	12500	20000	25000	40000	20000	90000 90000	GASPL		MODEL. C100	

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	50	5	150.		,		113.3	116.4	1.0.0	118.3	2 7 2	118.1	118.4	17.6	114.0	0.0	109.5	107.5	9.5	96.6	94.3	82.7	68.6	128.7	0.0	3869 29.7170	Ž.	
	X01120	DEGREES	140.				09,4	14.6		80.0	22. C	83.6	23.3		6.00 6.00 6.00	17.2	. .	0 C	90.00	90.	97.4	95.1	71.7	132.2	364.00 48.00	I ALPHA PAMB	812E 20.62 SQ	
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RESSURE LEVELS	OFT. SL			150, 160, PWL	.7 88.2 1 .8 87.4 1 .9 88.4 1	.8 89.4 .2 87.8	.2 89.3 .2 89.1 .1 87.7	0 83.6 9 81.2	.l	6 68.8	3 29.31	a			1.1 98.3 186.7 5.8 100.2 5.8 101.6	6-	\$859 TAMB 17.	IN) - FULL 117.04	
KTRAPOLATED SOUND PE	R.H. STD. DAY, SB 2400.0 FT.	FJ-400-FMGDL X01125	FROM INLET, DEGREES	120. 130. 140. 18	.7 94.4 96.8 .0 95.4 98.0 .8 96.9 99.7	.8 97.6 89 .1 97.4 101	.1 99.2 102.0 .2 101.5 101.6 .2 101.4 89.6	2 100.9 96.5 0 99.1 96.3 1 96.0 95.2	6 2 2 2	3 86.6 80.9	.6 78.2 67.7 .7 68.8 58.7	.5 55.1 42.8 .1 35.9 19.8 .6 8.1			08.3 110.0 110.1 104 14.1 114.9 113.0 105 14.7 114.9 113.0 105	FREQUENCY SHIFT	N292 IALPHA SE ADHO55 PAMB 20	SQ CM (1400.00 SQ	.22
SCALED.	70 PERCENT	IDENTIFICATION - FJ	ANGLES MEASURED FI	0. 100. 110.	.4 77.2 77.9 .3 78.7 79.4 .0 79.7 81.5	9 82.6 84.7	.1 84.2 86.2 .8 86.1 88.1 .4 86.8 89.2	.9 89.2 90.4 .3 91.6 91.1 .3 90.7 91.8	90.0 89.5 91.5 88.3 88.7 90.0 88.7 90.0 88.6 89.6 89.6 89.6 89.6 89.6 89.6 89.6	0 84.6 86 7 7 81.5 82.3	.5 77.6 75.9 .0 70.1 69.4	60.2 59.6 44.4 41.5 20.5 15.4			100,3 99.7 101.0 1 108.6 107.1 108.3 1 109.8 107.1 108,3 1	DIAMETER RATIO 8.260	TAPE NG. Aerg. Rdg.	IC RANGE 2400.0 FT) SL 9032.2	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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R.H. STD. DAY, SB - FJ-300-FMGDL X01	INLET,	120, 130.		2	96.7 103 98.2 104	100.3	103.6	4 6 6	104.9	105.3 106.2 105.0 105.7	105.4	104.8	101.6	98.4	90.08 86.08	75.9 72.	116.4 118.	ITY (FT/SEC) IAMETER (IN)	N292 1 ADG061	.4 SQ CM (
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AND	ž Ž		SURED	110.	71.6	7.57	76.3	77.3	78.6	79.3	79.8	80.08 80.75	1.08	80.4	79.2	77.8	76.5	_		50.7	33.1	0							O.	98.7	8.260		9032.	
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															P# QU												.56 .70	FREE-JET SPEED 3 M/SEC (382.0 FPS)		
ARC MOISE				7				139	7	4 4	12	4 2	4 4	142	4 4	42	4	7	4	4 4	139	138	137	- '	134 F	•	TAMB 21 RELHUM 48	MODEL 118.43		
DAY: SB 40.0 FT. ARC	L X01150 L X01400	EES	. 150. 160					106.2	107.6	107.6	105.8	103.1	98.3	97.6	9.90	97.4 0 7.0	98.9	8.98 8.98	97.2	96.7	92.0	87.9	76.9		26.2 2 4		A SB59 3 29.6580	- (NI 08	:	
DAY, 38	FJ-400RFMGDL FJB400-FMGDL	INLET, DEGREE	130. 140					9.68	101.2	104.5	106.2	107.2	107.7	107.1	107.2	105.8	92.	104.6	103.5	101	96.6	91.6	83.6	68.6 67.3	, o	9.01	I ALPHA	8 N	•	
NT R.H. STD.	MODEL BACKGROUND	MEASURED FROM	110. 120.				•	93	0	0 0 0 0 0	101	9 6	104	100	7 3 <u>5</u>	9 2	- 2	201	1 102		4 95	93	(N) 4	67.2 73.8	4 4 65 4 65 4 65 4 65 4 65 4 65 4 65 4		. NG. N292 RDG. ADHOGO	132,4 SQ (
, 70 PERCENT	DENTIFICATION -	ANGLES MEA	90. 100.					4 86	.0	0 4	.8 89.	. 3 92.	6 94.	. 3 94.	, ro	. 3 96. 96.	3 96.	.8 97.	4 95.	7 93.	.0 90.	7 88.	41	67.			TAPE AERO. §	: RANGE 40.0 FT) ARC		
1	IDENTI		70. 80.					.2 63.3	.7 83.5	.0 84.6 .9 86.0	3 91.7	89.1	9 90.5	.0 90.6 -	8 91.4	5 91.7	1 91.4	6 91.9	4 92.8	5 G	6 91.4	83.5 83.5	4 81.7	3 64.9	0 103 8 1		02-08-78 C41 ANECH CH	ACGUSTIC RAN		
59,0 DE0			. 60.					61.6	7 83.2	83.7 84.4	85.3	88.4	89.6	3 88,3	93.6	90.4	80.9	90.9	91.6	90.4	86.2	84.3 82.0	76.4	3 62.4 64	100.4		TEST DATE 02 LOCATION C4			
			40. 50					.2 81.	.8 82.	6 83.	0.83.	96.0	5 88.	97.	0.98	68 89.	5 90,	8 89.	. 8 91.	4 88.	4 86.	9 82.	73.	59.4 60.	. 101 101		TES	TEST POINT		
				FR 60 80	3 8	001	9 6 6	250	315	500 500 500	630	000	1250	- 2 000	2500	3150	2000	6300	10000	16000	20000	25000 31500	40000	63000				MODEL 0100	123	

14.683

07/19/79

															OR OF			AL)U/												SPEED 382.0 FPS)	
																						•									21.56	FREE-JET 116.43 M/SEC (
EXTRAPGLATED SGUND PRESSURE LEVELS	<u>.</u>		160.	74.5	73.0	72.6	71.5	21.6	20.00	69.7	68.3	2 70.2 161.5	69.4	67.0	65.5	59.8	9.14	21.2	Τ,	157.9	154.4								87.5	Ģ	TAMB	- FULL	
SOUND PRES	X01155	DEGREES	140. 150.	85.3 83	85.3 82	83.1 77	83.9 75	83.2 75	81.4	81.0 78	80.6 73	79.6 74.2	79.4 73	77.0.77	75.3 71	71.1 66	4.50	48.5 36	32.7	_	•							6 .	36	ENCY SHIFT -	IALPHA SB59 PAMB 29.6560	\$12E (1400.00 \$0 IN)	
H STO DAY	FJ-400RFMGDL	FROM INC	120. 130.	78.3	90.4	83.0 83.0	84.6		94.7	96.1	85. 85.	84.8 63.6	83.9	2 0	80.8	78.1	. C	61.7	51.3	84.7 8.0	•							96.1.96	102.8	O FREQUENCY	 N292 ADH060	SOCM	
		LES MEASURED	100, 110.	p	<u>ب</u> ب	. .	4	<u>.</u>	- 10	0		78.8 80.6	ص ر	ر ا	-	4.	4 a	0	٠ ي	- e								90.	97.7 98.4	RATIG 8.260	 TAPE NO. AERO. RDG.	S. 9032.2	
O DEG F 70 PERCENT	IDENTI		. 80.	. 8 70.	4.	73.	.6 74.	.0 -	- 20	.9 76.	.2 77.	76.2 78.2	.5 78.	79.	.8 77.	.1 76.	, s	.4 63.	.1 55.	7 12								88	97.6 98.4	DIAMETER R	18-78 ANECH CH	STIC RANGE (2400.0 FT)	
0.05			60.	.0 67.	289	20.0	.7 72.	.73.	0.074.	7 74.	.8 74.	75.6 75.2	.6 74.	5 4 7 4	8 73	.8 74.	0. 4 7. 6	.9 60.	.9 52.									4.	95.5 95.9		DATE 02-0	ACGUSTIC 731.5 M (240	
				.1 68.	.7 69.	2 2	. 8 71.	72.	33.	6 73	2 73.	71.5 73.9	74.	7.5	0 73.	.3 71.	9 6	0 55.	.3 41.	23.								2.9 85.	39.7 93.4		TEST I	TEST POINT 0115	
				1						1.			i					ł			10000	12500	20000	25000	40000	50000	80000	OASPL 8	PNLT			MODEL 0186	1

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										•																			4 5	43.20	FREE-JET 0. M/SEC (
40.0 FT. ARC				PW					45.9	47.7	20.7	51.3	51.8 4.1	52.0	51,3	50.0	50.2	40.00	46.6	47.7	46.0	45.9	43.4	42.0	6.00	39.9	40.7	162.9	TAMB	RELHUM		
ARC	•		160.						1.0	0 c	3 <u>4</u> 5 –	١.	•	15.2			1.60	80 a	07.9	9.90		00 00 00 00 00 00 00			87.4	75.9		24.9			MODE	
O FT	X01160								١.	•	- •	0	-	10	9,0		-	- r	0	, 101		8 1	-	ø	ຫ. ແ	0	4	-	g K	29.6949	Ž	1
40	ا لــ	EES	150						5 112	0 4 		-	_		-			- -	200	_		0 103	-			2 75		0 127		- 1	80	
SB	-FMOD	DEGREE	140						109.	•	- 2								12.						•	77.	•	127.	. 6	PAME	S ZE 20.52	
DAY, SB	FJ-ZER	INLET,	130.						00	27.5		١.				5 CO		•	10.9	-1		•	-1 -			75.9	•	124.3			J	
PERCENT R.H. STD.			120.						99.6	01.6 3.6	04.8		9.00 1.00	10.1	0.5	0.0	10.5		09.1	07.4	96	02.4	6.7	2.0	- 6			-	. <u>ē</u>	ADH044	80 C M	
Α. Η.	MODEL. BACKGROUND	ED FR					٠		-	ю.	, 0	4		7	- 0	 o o	9	۰. م	 	4		10 -	4	-	ص ھ	-	9	.6 121			32.4	
ENT	- MODI	ASURED	110			:			8	90 G	9 6	66	0 5	103	104	2 0	105	0.0	9 0			100	92	88		9		2 115	E N	RDG	"	
PER		ES MEA	100											100.			٠.	•	20	-4		97,7			81.5			112.	TADE	AERO.	ARC	
., 70 P	DENTIFICATION	ANGLES	90.									١.					-1			- 1		98,90	٠l •			.) -		11.6			RANGE 40.0 FT)	
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59.0 DEG. F.			70							60 0							-					94.						108	_		AC 12.2	
X			.09						1 4								-1		97.7	-1		•			77.8	64.3	•	108.7	77.40	LOCATION	; ·	
			50.						4 4	28.5							1			• •		90.8					o.	8.2	TEST	Ž Ž	POINT 16	
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				FREG	öö	ĕ	<u> </u>	160	25.	ال ال	20	63		125	160	2500	315	400	6300	8000	12500	16000	25000	31500	4000K	63000	8 0000	OASPI			MODEL. 0100	

							Ċ	F	igi P(NA OC	IL R	PA QU	GE ALI	is YT		,								PEED 0, FP3)	
																						CORRECTION - YES CORRECTION - YES	18,68	PREE-JET SPE O. M/SEC (C	
ARC			160,		2.4 145.9	N D	14.1 150.7	6	3 151	-	11,2 150,6		100	·	04.2 146.0	02.5 145.9 99.5 144.6	3	91.2 142.8 87.4 142.0	7.	9 0	124.9 162.9	REFRACTION C TURBULANCE C	TAMB	MODEL	
40.0 71.	X01160	REES	. 150.		5 112.5 11	115.6	116.2 1	117.1	116.0	116.6 1	12.0	112,1	110.5	- m	105.4	103.6 1	96.1	8 90.6 9. 8 85.9 8	80.8	66.4	127.1	0, RE	(A 5859 16 29.6949	SO IN) -	
AL R.H. SID, DAT, SB 40.0 TI		NLET, DEBREES	130, 140		105.1 109.	111.5 111.	113.1 116.	5 116	113.1 116. 112.8 116.	4 115	3 115 3 115	22	7 112		.6 106 .6 106	104.4 104.	96 0	.0 9 3	82.2	. 6	124.3 127.0	/SEC) (IN)	IALPHA	812E CM (20.52	:
A.n. 310,	I - FJ-ZER-FMODL	ANOLES MEASURED FROM INLET,	110, 120,		ľ			1	02.1 109.6	. — [- ,	103.4 107.4	A AU	00.5 102.4 97.1 99.2	4	69,1 92,5 83,9 67.1		64.6 72.4	15.6 121.1	VELOCITY (FT Jet diameter	NC. N291 RDG. ADHO44	132.4 50 0	
, /U TERVENI	DENTIFICATION	OLES MEASU	. 100.		93.2	94.3	94.0	97.3	100.3	100.7	100.3	20	101.6	0 100.6	98.51	97.4 1	90.8		76.8	63.1	112.2 1	FREE JET VE FREE JE	TAPE N AERO, RD	T) ARC	,
	IDEN	NY	80, 90		.5 91.	9 8 9 8.	7 94.	3 96.	. 3 150.	9 99.	7 98.	500,00	9	6 100.	. 100. . 8 99.	. 98. 6. 96.	.2 93.		.0.	5 63	109.7 111.6	S.	17-78 ANECH CH	ACCUSTIC RANGE 2 M (40,0 F	
O A			60. 70.		.8 87.	6	30°	4 94.	96,	.6 96.	97.	, o 4	5 97.	2 97.2	. 1 95,	.1 94.	7 87.	G O	73.	ગળ	108.5	SCALE CALC. 1	02-C	n	
			50. 6		•	88.2 88 89.4 89	0 6	0	٥,	-			1	96.8 97	N O	80 60 60 60	4	79.7 8 3, 74.4 77.	~	55.0 58	108.2 108.7	\$12E	TEST DATE		
			40,		84.3		88.2		93.3	1		95.5		93.1		85,4		76.9		52.0	105.9	MODEL/FULL INPUT 1.		TEST	

									OR OF	IGIN PO	1A (0)	L i	P <i>A</i> QU	IG IA	E	IS IY										T SPERD (0, FPS)
																									18.68 43.20	FREE-JET O, M/SEC (
			.9 167.9 .4 169.1 .1 169.7	5 170	170	5 169	5 1	167	166	165.8		162	5 161.7	9		158.3							6 181.0		TAMB	FULL
		ė.	92.3 86 92.8 87 93.6 88	0	1 87	. w	- 2	9 6	-	78.4 69.	- 10	10	55.9 42	۰									102.6 96.6 104.1 97.1 104.1 98.2	Ģ	3859 29.6949	2
L X01165	, DEGREES		8 9 8 8 2 8				ŀ	98	1	60 00 60 00	76	7	64.	4 O	-						•		104.8	ENCY SHIFT	I ALPHA PAMB	SIZE (1400.00 SQ
FJ-ZER-FMGDL	SURED FROM INLET,		85.2 92.0 86.3 93.5 88.5 93.1	i					1					٥	0	6 .0							101.4 103.6 106.6 107.7 106.6 107.7	FREQUENCY	N291 ADH044	SQ CM (1)
NO I			78.5 79.5 81.6	83.1	93.6	85.5 55.5	85.9 86.6	85.8	84.8	63. 63.	80.9	75.6	69.0	20.0	34.2	6.4							96.5 102.9	8.260	RDG.	9032.2
DENTIFICAT	ANGLES MEA	90. 100.	.0 76.7 .0 77.5 .9 78.6	3 79.	62.0	8 62	6 82.	985	1 81.	. 60	7 78.	5 73	.1 68.	2 2	1 36.	2.		•					9 93.6 0 100.4	R RATIO	TAPE AERÖ.	FT) SL
1DE	Y	0	72.7 76 74.3 77 75.6 77	6 -		- w	4 a	2.4	-	79.4 81	20 00	œ.	- -	_ 6		9							90.6 92.9 98.9 101.0 00.2 102.3	DI AMETER	07-78 ANECH CH	RANG 00.0
		70.	71.2 73.0 74.1	76.	189	78.	78.	77.	77.		73	70.	64	. AA		-							89.3 96.2 96.2		02- C41	ACGUSTIC 731.5 M (24
		. 60.	9 71.2 4 73.0 0 73.6	74	78.	96	77.	77.	76	75.55	72.	66	61.	000	83								.0 86.7 .1 94.6		TEST DATE LOCATION	
		40. 50	66.1 69. 67.1 70. 67.7 72.	<u>ه</u>	0	o 01	מ מ	– σ	ြယ	ກຸດກຸ	ო –	. 0	લા લ	אוס)								83.2 87 . 87.1 92. 87.7 92.		F -	TEST POINT 0116
		FREG	90 0 90 0 90 0	- 1	160				1	1250	1		3150	-		8000 10000	12500	16000 20000	1	:	20000	80000	CASPL B PNL C		,	MGDEL 0100

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

						INAL OOR	PAGE QUALIT	S Y			SPEED 0. FPS)
										14.90 45.50	FREE-JET O, M/SEC (
40.0 FT. ARC X01170		PWL.			14.2 150.6 14.2 151.0 13.8 150.5 13.2 150.5	6 150 6 149 6 149 6 149	- 148 - 147 - 147 - 146	04.0 146.2 001.3 144.3 000.4 144.3 97.6 143.3	85.2 140 73.7 138 66.7 139 23.6 161	TAMB 79 RELHUM	- MODEL.
•	E3	140.		.6 112.6 1 .9 114.1	115.8 116.8 116.2 16.0	6 115.3	4 110.1 2 109.4 8 109.6 1 107.6	07.8 106.9 1 05.2 104.3 1 03.1 102.2 1 89.3 99.6	6 80.7 6 74.9 7 67.5 7 67.5	I ALPHA SB59 PANB 29.6979	82 SQ IN) -
TD. DAY, SB FJ-ZER-FMGDI	INLET,			7. 3 104.7 10 1. 4 107.0 11 1. 2 110.5 11 1. 6 112.1	1221	====	3 110.0 8 109.0 5 107.6	107.1 104.2 103.0 99.3 94.3	9 97.0 9 87.0 3 74.0 68.4 0 123.1	N291 1AL ADH049 P	81 ZE 80 CM (20.52
ICENT R.H. STD. - MODEL FJ BACKGROUND .	EASURED F	0000		4 95.8 1 9 95.8 1	0 99.2 1 1 100.7 1 7 101.6 1 3 102.5 1	9 103.1 3 103.4 7 103.8 4 103.8	9 9 – 9	5 100.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	69.0 63.4 114.6 1	NG.	132.4
EG, F., 70 PERCEN Dentification - P	3LES			9 5 5 6 9 6 7 8 8 9 6 7 8 8	99 95. 99.	98.0 98.0 98.1 98.0	98.8 96.6 99.3 7.88	99.6 98. 97.8 97. 96.1 93.	62.7 110.6 1	TAPE CH AERO. F	RANGE 10.0 FT) ARC
59.0 DEG, F,		.00		4 0 0 0 - 6 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 96. 0 93. 0 94.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		95.8 96.9 96.9 96.0 93.1 95.3 96.0 96.4 96.0 96.4 96.0 96.4 96.0 96.0 96.0 96.0 96.0 96.0 96.0 96.0	79.2 84. 72.0 75. 65.6 67. 60.3 60.	02-37-78 C41 ANECH (ACOUSTIC
		.00		8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9 8 92 97	- 4 - 94 - 96 - 96 - 96	6 95 6 95 95	2.0 95.2 9.9 93.2 7.0 88.5 85.3	5 63. 6 57. 9 107.	TEST DATE LOCATION	ST POINT 12
		5		83. 86.6 87.2 87.2	98.6 92.6 95.7	94.7 95.4 93.8	94.8 93.6 92.0	10000 69.2 94. 12500 66.8 91. 16000 84.3 89. 20000 78.7 87. 25000 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251500 77.5 82. 251	69.8 62.6 57.0 50.6		0100 0117 0100 0117 0100 0117

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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 8B 40.0 FT. ARC IDENTIFICATION - FJ-ZER-FMODL X01170	SURED FROM INLET, DE			87.8 86.8 87.4 88.0 90.3 92.7 94.4 99.3 104.7 108.5 110.7 111.4 1	86.9 86.2 88.0 89.6 92.2 92.8 94.7 101.4 107.0 110.6 112.8 112.0 1 88.4 89.0 88.5 90.3 92.5 93.6 95.8 103.2 110.5 112.9 114.1 112.3 1	89.3 90.8 90.1 91.4 93.8 94.4 97.1 104.6 112.1 114.5 114.9 112. 90.9 91.4 91.2 96.3 95.2 96.0 99.2 106.2 111.7 116.1 115.8 114.	91.2 92.4 93.0 93.8 95.9 97.1 100.7 107.7 112.8 115.9 116.6 114.2 1 96.8 97.3 95.8 94.9 97.3 98.7 101.6 108.8 112.4 114.5 116.2 113.8 1	95.9 96.2 96.0 97.3 99.4 99.3 102.5 108.8 111,8 115.1 116.0 113.2 1 94.1 94.6 94.9 96.2 98.6 99.9 103.1 109.2 111.7 114.6 115.3 132.6 1	97.4 96.9 95.4 96.0 98.1 99.3 103.4 109.6 112.0 113.5 114.2 110.2 1 95.1 96.1 96.1 96.9 98.5 100.7 103.8 109.2 111.7 113.6 112.6 108.6 1	96.8 96.1 96.1 96.4 98.8 100.4 103.8 110.0 111.2 113.4 110.8 107.8 1 95.8 95.4 95.1 96.2 98.8 100.2 103.6 108.8 110.0 112.4 110.1 107.1 1	94.9 95.7 95.7 96.6 98.6 100.2 103.9 108.3 110.1 111.2 109.4 106.1 147. 94.6 95.6 95.1 96.7 99.3 100.2 103.1 107.8 109.0 109.8 108.6 105.8 147. 95.0 95.3 95.7 96.5 98.7 99.7 102.6 106.5 107.6 108.4 107.6 105.2 146.	94.0 95.4 95.8 96.9 99.6 98.7 102.0 105.1 107.1 107.8 106.9 104.0 146	89.9 92.0 93.1 95.3 97.6 95.8 99.1 100.8 103.0 103.1 102.2 100.4 144 87.0 88.5 90.4 94.0 96.1 93.5 95.0 97.8 99.3 99.3 99.6 97.6 143 82.5 85.3 86.4 91.3 92.5 89.8 90.7 95.1 94.3 95.5 95.7 95.8 142	79.0 82.5 84.5 85.8 86.6 86.0 87.7 91.3 92.8 82.7 90.8 73.2 77.2 79.2 84.0 84.7 80.3 82.5 86.0 87.0 87.1 85.3	50.5 63.2 65.6 67.0 68.4 69.4 70.77.3 80.2 81.6 80.7 79.1 86.0 87.3 74.0 75.8 74.9 73.7 87.8 87.3 87.8 87.8 87.8 87.8 87.8	107.4 107.3 108.6 110.6 111.3 114.6 120.6 123.1 125.6 125.9 123.6 1	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION CORRECTION - YEC Input 1.000 calc, 1.000 Free Jet Diameter (In) 48.00 turbulance correction - Yes	TEST DATE 02-07-78 TAPE NJ. N291 IALPHA SR59 TAMB 14.90 LOCATION C41 ANECH CH AERO, RDG, ADHO49 FAMB 29.6979 RELHUM 45.50	POINT ACCUSTIC RANGE 17 12.2 M (40.0 FT) ARC 132.4 SQ CM (20.52 SQ IN) - MOREL O, M/SEC (
0		40 FREQ	63 100		86.	87. 88.	92. 95.	92.	93. 93.	9 9	5000 93.6 6300 92.0 8000 91.6	89. 86.	16000 84. 20000 78. 25000 77.	31500 75. 40000 69.	63000 57.	OASPL.		d 10ya	MODEL TEST	and the second s

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

ANGLES MEASURED FROM INLET, DEGREES	. 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160,	1 66.9 70.5 70.7 73.0 76.2 76.2 76.0 64.7 91.0 91.6 90.6 65.6 1 69.7 72.3 72.3 74.0 76.5 77.0 79.3 86.0 92.5 93.4 91.6 86.1 4 71.3 72.9 73.4 78.9 77.9 78.6 81.4 87.6 92.1 94.9 92.4 87.4 71.5 73.8 75.1 76.4 78.5 79.6 82.8 89.1 93.1 94.6 93.1 87.3 1	4 77.0 78.6 77.9 77.4 79.9 81.1 83.6 90.1 92.6 93.1 92.5 86.7 0 76.0 77.3 77.9 79.6 81.9 81.6 84.4 90.0 91.8 93.6 92.1 85.6 9 73.9 75.6 76.6 78.4 80.9 82.1 84.9 90.2 81.5 92.8 91.1 84.6 2 77.0 77.0 78.0 80.3 61.3 85.0 90.3 91.6 91.3 89.5 91.5	2 74.3 76.5 77.3 78.6 80.4 82.4 85.1 89.7 90.9 91.1 87.4 79.1 167.5 7 75.6 76.2 77.0 77.8 80.3 81.8 84.8 90.1 90.0 80.3 84.9 77.3 167.2 2 74.3 75.1 75.8 77.3 80.1 81.3 84.3 88.5 88.4 88.9 83.6 75.6 166.3 45.6 75.6 75.6 75.6 165.0	5 72.3 74.8 75.2 77.3 60.1 80.8 83.2 86.9 86.7 85.3 60.7 72.2 165.4 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	65.8 69.9 72.3 75.2 77.7 75.7 78.3 78.6 78.8 75.8 69.9 58.8 61.6 65.5 68.9 73.3 75.7 72.8 74.5 74.8 73.9 70.2 64.4 51.1 54.7 60.4 63.4 69.3 70.7 67.7 70.2 66.5 63.0 55.6 40.9 46.5 53.8 58.1 60.7 61.9 60.9 61.4 62.6 60.2 54.0 41.7 19.9	33.1 42.3 47.5 54.0 55.2 50.3 50.8 51.0 44.9 38.6 22.5 159.0 159.1 12.2 22.8 29.5 35.1 37.4 35.1 32.8 34.3 25.9 15.4 157.1 3.8 8.7 11.3 11.2 7.2 9.0 15.4 157.4 157.4			4 85.8 87.5 68.1 69.8 92.0 92.7 95.4 100.3 102.5 103.4 101.3 95.2 179.7 2 90.9 93.3 95.0 97.6 99.9 99.2 101.7 105.6 106.3 106.1 103.0 95.6 7 91.5 93.9 95.0 98.9 101.1 99.2 101.7 105.6 106.3 106.1 103.0 96.8 DIAMETER RATIO 8.260 FREQUENCY SHIFT -9	TEST DATE 02-07-78 TAPE NO. N291 IALPHA SBE9 TAMB 14.90 LGCATIÓN C41 ANECH CH AERG. RDG. ADHO49 PAMB 29.6979 RELHUM 45.50	ST POINT ACGUSTIC RANGE 81ZE 81ZE 617
		1 68. 4 71.	9 73.	22.42	72.72.71.	65. 61. 54.	33. 12.			.4 85.8 .2 90.9 .7 91.3	TEST	150
	FREG 40	J	}	315 71. 400 71. 500 71. 630 69.	65 63 63 60	ţ	1]	31500 40000 50000 63000	86	1144 1844	131 000 131

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				\$		145,1	146.7	149	4-		-1	_ +-	3 150.1	1				145.4	J	4	139	139.0	2 162.2	TAPE	RELHUM			
40.0 FT. ARC	X01180		50. 160,			11.6 111.4	4.6 112.5	113	6.3 114.2	115	114	113	13.8 109.8 12.8 108.6	107,	_ •			103.0 102.0 99.9 98.1	1	, e o	10		126.5 124.2	385 9	848	IN) - MODE		
DAY, SB 40	-FHODL	DEGREES	140, 1			109.0	130.6	114.8	115,9	115.0	115.4	115.1	114.9	13.2	110,6	109,4	105.7	103.4	95.7	68.1	82.4	76.1	126.2		PAMB	\$1 ZE 20.52 80		
	FJ-ZER-F19001	M IMLET,	120. 130,			,6 104	-	-	4m 4m	. 4	-1	-	44	9.5 110.6	-			-		9 ED	81.	77. 6 75.2 72.0 69.2	0.6 123.5	Ç.	ADH047	S CH		
ENT R.H. STD.	MODEL. BACKGROUND	ASURED FROM	110. 1			*	95.0 101 96.3 103	-	4.	412	•		104.1	-l• •		- I		99,6 10 96,8 9	i		- 1	69.8 7 64.2 7	115.2 120	9	90	132.4		
70 PERCE	ATION -	ANGLES HE	. 100.				. .		~ 0	40		60 (0 60 (0	. W. C			<u>.</u>	- à		١,,	o so	6	.7 70.2	2 112.0	TAP	AERO, R	E T.) ARC		
F30EL.	IDENTIFICATION	*	90.		1	.	- 0	6	0 4	<u>.</u> 00	0	~ •	40	36.7 98.1	0 4	ام	- >	8 0	0	n in	0	67.5 68. 61.1 63.	109.2 111.	7 9	ANECH CH	TIC RANGE		
UNTRANSFORMED 59.0 D			70,			9	(V. eq	8	0,1	, m	7	<u>ه</u> م	10 0	, mar	4.1/	N.		- o	lo c	N IO	0	65,9 60,8	107.9 1	02-07-78	C41	ACOUSTIC		
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS
. 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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			o. Pwt.	0 4 4 0 0 0 0 0 0 0 0 0	4000	ω − 4 œ	.4 166.2 .5 165.3 .5 165.3 .5 163.9	6 0 0 0		And the second s		.9 180.4 .6	TAMB 15.62 RELHUM 44.80	FREE-JET
1	YOI 192	DEGREES	140. 150. 160	.3 91.3 95 .6 92.1 86 .7 92.9 87 .1 93.6 88	4 92.8 67.8 67.9 86.3 81.6 85.3 82.3 82.3 82.3	3 88.6 80 3 86.9 78 6 84.8 76	86.1 81.3 73 84.5 79.3 71 82.6 77.5 68 79.4 73.9 64	.1 70.6 .7 64.7 .3 55.8 .8 42.0	.7 22.0			103.9 101.9 95.9 106.9 103.6 96.6 106.9 103.6 97.6 CY SHIFT -9	1ALPHA SB59 PAMB 29.6949	- (N) 08
	. i	SURED FROM INLET, C	. 120; 130.	835.2 86.0 87.9 89.6	91.1 92 91.0 92 91.2 92 91.3 92	90.7 91 90.3 69 89.3 69	0 87.9 87.7 3 96.7 86.0 8 85.3 84.9 8 82.0 81.9	79.9 79 76.3 74 70.7 67 63.1 61	31.8 35.6 26 9.5			101.2 102.9 106.3 106.8 106.9 106.8	N291 1A	.2 SQ CM (14
	DENITE ICALION	ANGLES MEASURE	5. 100.	76.5 77.5 78.9 80.1	6 82 8 82 8 82 8 82	6 82.6	80.8 81.3 84.0 80.1 80.7 83.3 80.6 79.8 82.8 79.1 78.3 80.8	2 76.9 7 73.3 5 68.5 62.2	0 51.3 9 35.6 12.0			92.6 93.3 96.0 00.6 100.1 102.4 01.8 100.1 102.4 TER RATIO 8.260	TAPE NG. AERG. RDG.	9E FT) SL 9 032
	2		70. 80.	0 73.0 0 74.5 4 78.6 8 77.1	4 78.4 6 79.9 4 78.9 7 78.8	9 79.1 5 78.6 8 77.6 78.4	76.2 78.0 8 76.2 78.0 8 75.8 78.3 8 74.5 76.8 7	3 76.2 4 74.6 4 70.3 9 61.5	7.7 54.5 0.5 35.9 4.1 9.3			95.8 96.5 100.9 96.3 99.8 101.	02-07-76 C41 ANECH CH	ACCUSTIC RANGE
			0. 50.	.8 69.4 71. .9 70.7 73. .4 71.5 73. .6 72.5 74.	.6 76.5 78. .5 76.5 78. .1 74.2 76. .0 77.7 78.	.7 74.5 76. .5 76.1 76. .3 74.3 75. 8 74.5 76.	.0 73.6 75.8 .7 73.6 75.3 .5 72.1 74.6 .4 69.3 72.3	.2 66.3 70. .6 61.9 66. .6 55.2 61.	.1 33.9 43. 12.5 22.			. 7 86,3 98.1 . 5 91.5 94.1 . 0 92.1 94.1	TEST DATE LOCATION	TEST POINT 731
			4	50 65 63 66 80 67 100 71	4284			2000 57 2500 50 3150 45 4000 37	5000 22 6300 8000 10000	44	1	OASPL 62 PNL 86 PNLT 67	d 1 97 d	MODEL 0100

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NOISE				7				6.4 2.9	49.7	9.0	, 7 c	800		. o	9.6 4.0	8.8	5.5	90.7	3.5	e 6	4.6		3.4		1	Ö		
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CORRECTED DAY, SB	-ZER-FMODI	, DEGREE	. 140					-	3 114.			- -					-	103	-)		- }		8 127.	IALPHA	14 L	20.62		
S COR	FJ-ZE	INLET,	130					105.	113	113	4	13	2	113.	112.	1 2	108.	2.5	96	90.0	83.	26.	124.	9	0	S E		
LEVEL.	ROUND	FROM	120					102.4	104.0	107.7	100.0	110.6		110.7	110.3	109.3	1	102.3	96.6	92.6	83.1	72.2	121.6	N291		4 50	•	
SSURE NT R.	MODEL BACKGROUND	SURED	110.						97.0	1.		- 4	104.4	105.1	105.4	104.9	103.5	100.4	92.5	89.5	76.4	69.7 64.4	116.0			132		
SOUND PRESSURE LEVELS 70 PERCENT R.H. STD.	1 0N - N	ES ME/	100					93.7	94.3	97.0			100.3			50.0			-l -		76.2		112.6	TAPE	AERO.	ARC		
	!	ANGLES	8	!					93.5			• 1									+1		11.9			10.0 FT)		
MODE DEG	DENTIFI		90,						6.10			٠.							.I .			67.7	09.9 1	m :	מא מי	40.		
FORNE 59.0			70.					- <u>a</u>	89.5	9 0	4 60	<u>.</u> -	- თ.	- ღ	- 4	9.		- 4 0		io io	ဆ.		08.7 1	02-07-78	NA P	2 M C 4		
UNTRANSFORMED MODEL 59.0 DEG. F.			.09					.	0 0	a r	. 0	۲ -	- 4	ထက	ب ب ب		~ 0		<u>.</u>	٥.	6	4 w	0		1	12.		
5			50.					- ~	90.0	- 0) က ၊	<u>.</u> -	- 4	မ ဇ	ල දැ	ص م د	ي ا	40	0	ص در د	8	စ်စ	3.6 109	TEST DATE	A)(1)	10 III		
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				FREG 50		100	20	ซี 6	24.00	် ရ	50	125	200	25C 315	40C	630	1000	16000	2500	315C 4000	5000	63000 80000	CASPL			1001	135	

									OR OF	IG P	SIN POC	AL	. F	PAC PUA	E	IS TY		•							ION - YES		M/SEC (0, FPS)	
59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	ON - FJ-ZER-FMODL	ANGLES MEASURED FROM INLET, DEGREES	FREO 40. 50. 60. 70. 80. 80. 100. 110. 120. 130. 140. 150. 160. PWL	100	125	84.5 89.1 87.8 88.1 89.6 91.8 93.7 95.6 99.8 105.2 110.3 113.6 11	87,7 89,7 90,0 89,5 81,3 93,5 94,3 97,0 104,0 111,3 114,4 116,1 113.8	88.0 90.0 92.3 91.1 91.9 94.5 95.4 97.8 105.1 113.1 116.5 116.7 114.6 1	93.4 92.9 93.7 94.2 95.3 97.4 98.1 101.7 109.4 114.3 117.6 118.6 116.2	97.2 98.3 98.8 97.3 96.7 98.8 99.4 103.1 110.3 114.1 117.0 118.7 115.3	94.1 97.7 97.7 97.7 99.0 100.9 101.0 103.7 110.6 113.5 116.1 116.3 115.2 196 2 95.1 96.1 96.1 97.4 100.1 101.2 104.4 111.0 113.2 117.4 117.3 114.1	96.9 99.4 98.4 96.9 97.3 99.1 100.3 104.7 111.3 113.8 116.7 115.7 110.7	95.0 96.6 98.8 97.1 98.2 99.8 101.7 105.1 110.7 113.4 117.1 113.8 109.3	95.8 98.3 97.3 97.3 98.2 100.0 101.7 105.8 111.5 113.2 116.4 113.1 1 96.0 98.3 97.6 97.1 97.7 99.6 101.4 105.4 110.3 112.5 114.4 111.3 1	96.1 98.2 98.2 97.4 97.8 100.1 101.5 105.4 110.1 112.1 113.2 110.9 106.6 1	92.4 96.2 97.1 97.7 98.5 100.4 101.0 104.1 108.2 109.8 110.7 108.1 105.7	2 94.5 96.7 96.1 98.7 100.9 100.2 103.5 107.1 108.6 108.8 107.4 104.5	85.3 91.4 93.3 94.4 97.1 98.8 97.5 100.4 102.3 104.5 103.9 103.7 100.9 1	80.0 88.0 90.3 91.9 95.7 97.1 94.5 97.8 99.3 101.0 100.8 1 78.5 83.8 87.1 87.7 92.6 94.2 91.5 92.5 96.6 96.1 96.7	76.8 79.8 84.3 86.5 87.3 88.3 87.5 89.5 92.6 95.3 83.7 91.5 90.4	71.5 75.2 78.7 80.5 85.0 86.0 81.8 84.3 87.5 89.0 89.1 86.5 86.2	.3 67.8 71.3 73.8 76.2 78.0 76.2 76.4 63.1 63.2 63.6 60.7 78.4 1 .5 61.8 64.4 67.1 67.7 69.7 70.9 69.7 78.6 76.0 76.8 75.9 74.2 1	52,1 55,6 58,8 61,6 61.3 64,2 63.0 64,4 72,2 70,9 72,5 68,3 67.7 140	0 108.7 109.9 111.9 112.6 116.0 121.6 124.8 127.9 127.8 125.0 163.4	NGDEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION CORRECTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION	TEST DATE 02-07-78 TAPE NG. N291 IALPHA SB59 TAMB 14.90 Location C41 Anech Ch Aero. RDG. Adho48 Pamb 29.6949 Relhum 45.50	MODEL TEST PWINT ACCUSTIC RANGE 0100 0119 12.2 M (40.0 FT) ARC 132.4 SQ CM (20.52 SQ IN) - MODEL 0, M/	

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SGUMD PRESSURE LEVELS SØ Z400.0 FT. SL X01195 DEGREES 140. 150. 160. PML 83.3 92.8 87.9 169.4 85.9 94.4 88.4 170.3 86.4 95.1 160.1 86.4 95.1 160.1 86.4 95.1 160.1 86.4 95.1 160.1 86.5 94.8 77.8 169.8 84.5 97.8 16.8 171.1 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 170.5 85.6 93.1 86.1 167.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.3 70.6 63.3 163.8 85.4 80.8 70.8 160.8 85.5 7 103.3 96.8 161.8 85.6 104.7 96.8 80.6 104.7 96.8 80.6 104.7 96.8 80.6 104.7 96.8 80.6 104.7 96.8 80.6 104.7 96.8 80.7 103.8 8539 TAMB 14.90 80.6 53.1N - FULL 0. M/SEC.	
150. 160. PRESSURE LEVELS 150. 00.00 FT. SL. 150. 160. PR. 150. PR. 160. P	
100.0 FT. SELECTOR 150. 160. 0 FT. SELECTOR 150. 160. 150. 160. 150. 160. 150. 160. 150. 150. 150. 150. 150. 150. 150. 15	
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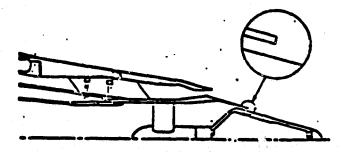
6.1.2 Measured Acoustic Data for Model 1A

 $R_r^0 = 0.853$ C-D outer nozzle

 $R_r^i = 0.933$ conic inner nozzle

 $A^{1}/A^{0} = 0.194$

with struts in outer flow



				ORIG OF	INAL POOR	PAGE QUALI	is T			53.96 34.20	FREE-JÉT SPEED O. M/SEC (O, FPS)		
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - MODEL FJ-ZER-AMODL X01010 BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES		66.3 91.6 91.3 91.1 91.0 93.6 96.0 99.9 100.6 107.7 112.6 119.0 115.9 1 67.9 99.9 90.7 91.5 93.8 95.9 96.1 96.7 102.7 110.0 114.6 120.3 117.0 1 69.2 91.2 92.2 92.0 93.1 95.5 96.8 99.2 104.2 114.0 116.9 122.1 116.8 1 90.3 92.0 93.5 93.6 94.9 97.3 97.9 100.3 105.3 115.6 118.7 122.9 117.1 1	91.8 93.9 96.1 94.9 96.5 96.1 99.3 102.4 107.9 116.5 120.3 123.5 117.9 155 96.1 94.4 98.2 97.2 97.3 99.4 100.6 104.4 109.9 117.0 120.9 120.9 120.8 117.7 156 98.9 98.7 100.7 99.0 99.4 101.0 102.1 105.5 117.5 117.1 121.4 124.1 117.5 156 99.3 102.1 103.6 102.9 102.5 103.8 104.0 107.1 111.3 116.7 122.5 123.5 116.1 156	167,3 163,2 102.5 102.0 101.3 103.5 104.1 107.7 112.5 117.0 122.8 121.7 114.2 156 107.5 106.3 106.0 104.6 101.7 102.3 103.9 108.1 112.8 117.6 121.3 119.1 111.6 155 105.7 105.7 107.2 106.1 104.7 105.1 108.7 112.4 119.0 119.7 118.0 110.0 155 104.2 105.0 105.0 105.0 106.3 107.1 107.7 106.3 109.5 113.0 118.6 118.0 116.7 109.5 154	102.8 102.4 104.2 104.2 105.0 106.8 107.5 109.7 112.4 118.0 116.9 114.9 107.4 153 101.8 102.7 103.2 103.9 104.0 105.8 107.7 110.4 111.9 118.1 115.7 114.6 106.3 153 99.5 101.9 103.5 103.2 103.9 106.0 107.0 110.7 112.1 116.6 114.1 113.4 106.1 152 99.0 101.6 102.9 103.4 104.2 105.6 106.2 109.5 111.6 115.3 113.4 111.3 105.0 152	96.8 100.2 102.3 102.8 104.1 106.0 104.9 108.6 110.6 114.6 112.3 110.7 104.8 152. 93.9 97.6 99.7 101.4 103.1 104.0 104.0 106.9 108.8 112.7 110.1 108.4 102.9 151. 91.9 95.8 98.4 100.0 102.6 104.1 102.3 105.5 106.8 111.2 108.2 106.7 101.1 150. 85.8 93.2 95.2 97.9 100.8 102.1 99.3 102.5 104.4 108.2 105.4 103.3 98.5 149.	84,1 89.6 92.3 92.6 97.8 96.7 96.3 57.4 101.9 103.1 101.8 101.1 96.4 146. 82.4 86.5 89.6 92.5 92.4 93.3 92.6 94.5 97.9 101.8 97.4 94.5 90.7 148. 77.5 80.5 84.4 86.8 90.6 91.3 87.7 89.6 92.9 96.1 93.1 89.3 86.8 147. 70.2 75.1 77.5 80.6 82.3 84.0 82.5 83.4 89.0 90.3 87.7 84.4 81.2 146.	65.0 70.7 71.3 74.1 74.8 75.6 77.0 77.5 85.0 84.5 81.3 79.0 58.9 64.2 65.7 69.6 67.6 70.7 70.0 71.7 79.7 80.3 76.7 71.4 114.2 114.3 115.0 115.1 115.5 116.8 117.0 120.2 123.4 129.1 131.4 132.9	TEST DATE 03-29-78 TAPE NO. N313 IALPHA \$859 TAMB LGCATION C41 ANECH CH AERO. RD6. ADH214 PAMB 29.5600 RELHUM	MODEL TEST POINT ACGUSTIC RANGE SIZE SIZE O 0100A 0101A 12,2 H (40.0 FT) ARC 139,0 SQ CH (21.55 SQ IN) - MODEL 0	139	

					ORIGIN OF PO	AL PA OR QU	GE IS	-		ł	CTION - YES CTION - YES		FREE-JET SPEED M/SEC (0, FP3)	
FORMED MODEL SOUND PRE ERCENT R.H. STD. DAY, CATION - FJ-ZER-AMODL	ANGLES MEASURED FROM INLET, DEGREES 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, PWL	63 63 60 100	3 81.6 91.3 91.1 91.0 93.6 96.0 98.9 100.6 107.7 112.8 119.0 115.9 1	67.9 69.9 90.7 91.5 93.6 95.9 96.1 98.7 102.7 110.0 114.6 120.3 117.0 152 89.2 91.2 92.2 92.0 93.1 95.6 96.8 99.2 104.2 114.0 116.9 122.1 116.8 153 90.2 92.0 93.5 93.6 94.9 97.3 97.9 100.3 105.3 115.6 118.7 122.9 117.1 154 91.8 95.1 94.9 96.5 98.1 99.3 102.4 107.9 116.5 120.3 123.5 117.9 155	96.1 94.4 96.2 97.2 97.3 99.4 100.5 104.4 109.9 117.0 120.9 123.8 117.7 1 99.9 99.7 100.7 98.0 99.4 101.0 102.1 105.5 111.5 117.1 121.4 124.1 117.5 1 99.8 102.1 103.6 102.9 102.5 103.8 104.0 107.1 111.3 116.7 122.5 123.5 116.1 107.3 103.2 102.5 102.0 101.3 103.5 104.1 107.7 112.5 117.0 122.8 121.7 114.2 1	107.5 106.3 106.0 104.6 101.7 102.3 103.9 108.1 112.8 117.6 121.3 119.1 111.6 105.7 106.7 107.2 106.7 106.1 104.7 105.1 108.7 112.4 119.0 119.7 118.0 110.0 104.2 105.0 105.0 106.3 107.1 107.7 108.3 109.5 113.0 118.6 118.0 116.7 109.5 109.8 102.4 104.2 104.2 104.2 104.2 104.2 105.0 105.8 107.5 109.5 112.4 118.0 116.9 114.9 107.4	101.8 102.7 103.2 103.9 104.0 105.8 107.7 110.4 111.9 118.1 115.7 114.6 106.3 199.5 101.9 103.5 103.2 103.9 106.0 107.0 110.7 112.1 116.6 114.1 113.4 106.1 199.0 101.8 102.9 103.4 104.2 105.6 106.2 109.5 111.6 115.3 113.4 111.3 105.0 106.8 100.2 102.3 102.8 104.1 106.0 104.9 108.5 110.6 114.6 112.3 110.7 104.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10	93.9 97.6 99.7 101.4 103.1 104.0 104.0 106.9 108.8 112.7 110.1 108.4 102. 91.9 95.8 98.4 100.0 102.6 104.1 102.3 105.5 106.8 111.2 108.2 106.7 101. 85.9 93.2 95.2 97.9 100.8 102.1 99.3 102.5 104.4 108.2 105.4 103.3 98. 84.1 89.8 92.3 92.8 97.8 98.7 96.3 97.4 101.9 103.1 101.8 101.1 96.	1500 82.4 65.5 69.6 92.5 92.4 93.3 92.6 94.5 97.9 101.6 97.4 94.5 90.7 0000 77.5 80.5 84.4 86.8 90.6 91.3 87.7 88.6 92.9 96.1 93.1 89.3 86.6 0000 77.5 80.5 84.4 86.8 90.6 91.3 87.7 89.0 90.3 87.7 84.4 81.2 0000 70.2 75.1 77.5 80.6 82.0 84.0 82.5 83.4 89.0 90.3 87.7 84.4 81.2 3000 65.0 70.7 71.3 74.1 74.8 75.6 77.0 77.5 85.0 84.5 81.3 79.0 75.7	2 65.7 69.6 67.6 70.7 70.0 71.7 79.7 80.3 76.7 71.4 68.4 147.9 3 115.0 115.1 115.5 116.8 117.0 120.2 123.4 129.1 131.4 132.9 126.9 167.5	C. 1.000 FREE JET VELGCITY (FT/SEC) O. REFRACTIÓN CO C. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE CO	LOCATION C41 ANECH CH AERG. RDG. ADH214 PAMB 29.5600 RELHUM 34.	MODEL TEST POINT ACCUSTIC RANGE 0100 0101 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.55 SQ IN) - MODEL 0.	to the second se

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

					OR OF	IGINAL POOR	PAGI QUAL	IS IS		?. :			SPEED 0. FPS)
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IDENTIFICATION -	ANGLES MEASURED	90. 100. 110.	6 80.3 82 6 81.6 84 82.9 86	4-00	3 86.6 89 9 87.5 90 8 88.4 90 6 88.4 90	8 87.4 90 3 85.0 88 0 83.0 88	0 82.0 84 5 78.4 80 7 74.0 74 6 67.3 67	6 57.4 57 5 42.2 40 3 18.8 15			. 8 97.9 100.7 . 9 105.0 107.6 . 1 105.0 107.5 .R RATIO 8.061	TAPE NG. AERO. RDG.)E FT) 3L 9032
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		. 60. 60.	71.4 73.72.2 74.0 76.0 76.0 76.0	3 79.7 81.0 0 81.9 84.6 3 82.8 83.2 2 85.6 86.6	83.6 84. 80.6 83. 80.5 83.	79.4 62. 76.9 81. 77.0 壽、	71.5 76. 67.6 72. 61.7 67. 52.7 60.	40.2 20.5 30.			4 93.0 94.9 8 96.4 101.0 7 96.4 101.0	TEST DATE	TEST PGINT 731
		FREG 40	7.862	125 160 76 250 85 85	7288	74.71.00	54. 56. 43.	ရွိ ဗ	12500 16000 20000 25000	40000 63000 63000	98.	a 357a '	700 141 0000

					•			01	RIG	ANI: 200	N. P.	PA QL	GE JAI	19							58.10 12.70	FREE-JET SPEED 8.87 M/SEC (390.0 FPS)	
ACENT R.H. STD. DAY, SB 40.0 FT. ARC - MODEL FJ-400-AMODL X01030	INLET, DEGREES	. 110. 120. 130. 140. 150, 160.	TMA		95.3 97.1 103.1 106.8 116.0 112.9 194.7 98.4 105.8 110.9 117.6 113.5	94.7 99.7 109.0 113.7 119.1 112	98.2 103.4 112.5 116.6 118.8 107.4	100.6 107.3 113.9 117.0 115.9 102.6	103.6 108.6 114.5 117.4 113.6 102.4	.4 164.5 110.3 115.4 117.1 113.8 102.0 151.9	105.4 110.9 116.0 117.2 114.3 102.3	109.0 110.8 115.5 114.3 109.9 100.1	106.7 10.7 112.6 110.6 106.9 97.7 1	105.0 109.3 111.5 109.0 105.6 96.4 1 103.6 106.2 109.0 106.0 103.3 94.7 1	8 101.7 103.5 107.0 103.3 101.5 92.6 1 5 98.1 100.9 103.2 99.7 98.1 90.8 1	92.9 97.4 98.0 95.9 94.3 89.1	85.0 88.8 90.1 87.6 83.9 79.3	77.4 83.5 83.8 81.0 77.6 73.3 1	65.0 73.2 71.6 69.1 62.5 59.4 1	.1 117.3 121.0 126.0 127.8 127.9 119.6 163.7	PE NG. N313 IALPHA SB59 TAMB RDG. ADH216 PAMB 29.5600 RELHUM	SIZE 139.0 SQ CM (21.55 SQ IN) - MODEL 11	
59.0 DEG. F., 70 PERCE IDENTIFICATION -	ANGLES M	40. 50. 60. 70. 80. 90. 100	FREG 50 63 80	100 125 160 200	62.4 86.3 86.5 87.6 87.6 89.5 91. 83.6 85.4 86.9 86.9 89.0 90.9 92.	86.1 86.7 67.9 67.4 89.0 91.2 91.	85.7 88.6 90.6 90.7 92.5 94.1 94.	92.5 91.5 93.1 93.6 94.2 96.5 97.	104.5 103.6 101.9 99.6 97.7 99.8 100.	104.2 104.8 105.8 105.0 100.6 99.5 100. 101.4 103.2 105.3 106.0 106.1 104.2 102.	99.3 99.6 100.9 102.9 104.9 107.0 105. 98.7 99.1 100.8 100.0 101.3 104.2 105.	97.9 98.3 100.1 100.5 101.3 103.1 105.	96.7 97.4 99.7 99.6 100.3 103.4 103. 96.9 97.6 98.5 99.1 100.1 102.0 103.	95.3 97.1 99.0 99.0 100.1 102.2 101.	90.55 91.6 94.7 95.9 99.1 99.6 97.	83,6 86.0 88.3 88.8 94.2 94.8 92.	77.1 76.4 81.0 82.7 86.9 87.1 83.	70.0 71.5 73.4 76.1 78.5 79.2 78.	58.8 58.0 61.0 64.1 63.3 65.2 64.	OASPL 110.6 111.2 112.2 112.4 112.7 114.0 114.	TEST DATE 03-29-78 LOCATION C41 ANECH CH AERO	MODEL TEST POINT ACCUSTIC RANGE 0100Å 0103Å 12.2 M (40.0 FT) ARC	

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69.0 DEG. F., 70 PERCENT R.H. 1	ANGLES MEASURED 70 90 100 110		1 80.9 69.1 89.5 80.1 81	.1 90.9 90.6 91.1 90.7 92 7 90.2 90.7 91.4 90.9 92 3 90.5 92.2 92.6 92.4 94 1 93.2 94.4 94.5 94.1 96	(8 94.1 95.3 95.7 95.5 96 4 95.9 96.1 57.1 97.4 99 6 96.8 97.7 98.7 98.6 101 9 98.9 99.7 100.6 99.9 102	5 102.9 102.7 100.7 100.3 103 9 108.0 108.8 105.7 103.1 104 3 109.9 108.1 109.0 105.9 105 3 107.1 104.9 106.6 107.0 107	4 104.6 105.3 106.1 106.8 108.8 108.8 108.4 109.2 104.2 104.1 105.0 104.8 106.9 103.5 103.5 104.1 105.2 103.4 106	1 103.2 103.7 103.3 101.3 103 3 102.6 103.6 102.6 99.5 102 5 100.3 101.3 101.1 97.7 99 5 97.0 98.7 97.8 94.8 94	.8 91.8 92.1 91.7 \$.0 88.9 91.5 90.1 8 .3 84.4 83.0 82.2 8 .7 76.8 74.3 74.5 7	116.3 116.1 116.3 115.1 CALF FACTOR FREE LET	C. 1.000 FREE 03-29-78 TAPE C41 ANECH CH AERG.	ACCUSTIC RANGE 12.2 M (40.0 FT) ARC 139.0
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ı Z	ANGLES MEASURED FROM	. 110.		97.4	000	99.0	103.4	7 106.4 11	106.5	106.8		108.5	106.9	107.1	103.4	95.2	91.1 86.4		68.1	9 118.5 122	77		139.0	
IDENTIFICATI	ANGLES !	90, 100		92.1	4.4.	96.0	98.4	100.00	102.5	102.0	102.3 1	103.2 1	103.2	103.0	101.2	95.7	80.00		67.1	114.2 114.	FREE JET FREE	TAPE CH AERO. F	RANGE 10.0 FT) ARC	
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		•	ව සු ක ර ව සි ක ර	 85.3	68.7	88.0 80.0	93.9	86.0 86.0	97.9	96.0	100.5	97.4		60.00	0.79	80.2	78.2	\$0000 67.0 7	53.6	GASPL 108.8 11	MODEL/FULL INPUT 1.		L TEST P	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEB. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

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																																		54.32 29.30	FREE-JET SPEED M/SEC (0, FPS)	
		Ę	170.2	172.4	172.9	172.9	175.2	75.2	72.0	172.2	170.7	170.6	169.9	169.3	166.6	67.6	166.3	164.8	164.1	163.6	162.3	163.0								164.5	,			TAMB 6	0.	}
		160.	67.7	9	89.5	9.69	90,6	60,0	¥ .	79.1	76.8	74.7	73.0	70.5	3. C	200	53.2	42.3	20.8			•										100.1			- FULL	
0	ð	150,	96,8 97,8	96.4	98,8	96.8	100.6	100.3	2 70	92.7	89.7	87.8	1 98	63,0	92, 4 0, 4	74.2	68,9	59.3	45.4	25.9										106.3	6	10.3	FT9	3859 29,5600	Ē	
AUTU45	วรสหยาย	140.	93.0 53.0	9	-	96.4	ů (ú c	ع م	-	0		•						i	44.0	20,1									107.6	-	112.2	CY SHI	PAMB	\$12E (1400.00 \$Q	
. 1		130.	92.7	93.	95.3	95, 1	96, 3	86,40 4,40	97.0	93.0	93.6	94.1	92.5	800	0, 44 0, 44	200	60.2	73.5	•	53.7	•									106.6	6	112.3	FREQUENCY SHIFT		S CH (140	
I - FJ-ZEK-ANOUL	5	120.	84.3	87.4	88.6	90.8	92.3	9 9 9 9	92.7	92.5	91,1	89.8	89.4	•	7,70		79.1	74.5	67.4	55.7	0,0	3.0								102.5	108.2	108.8	u.	N313 ADH216	2 80 0	
	3	110.	80.0	63.1	85.3	86,1	88,1	90.0	88.3	88,5	88.4	99.6	87.7	86.6	96.4	80.2	78.4	71.9	64.6	54,4	7,00	N									105.5	95. S	8.061	200 200 200 200 200 200 200 200 200 20	9032.	
DENTIFICATION	3	100,	76.3	60.1	81.8	63.1	94.0	92.7	4 6	65,1	64.7	84.7	85.0	2 .	63.	79.6	75.0	71.3	64.3	54,5	30.7	0,0								96.0	102.8	102.6	RATIO	TAPE AERO. 1	S.	
L L L	į	90,	76.6			872.4						1		•						58.4										95.2	103.2	4.4	AMETER F	- 5	1C RANGE 2400.0 FT)	
		80,	74.5			79.9		62.3	81.8	97.89	82.0	82.2	81,9	61,6	9 0	78.6	76.6	72.4	64.1	57.5	9,0									93.2	9	102,4	NIO.	-29-78 1 ANECH	ACGUSTIC	
		70.	73.0	75.9	77.6	79.4	95.6	90.0	81.6	61.8	81.2	61.1	80,2	79.5	18	76.3	72.6	66.9	62.3	51.9	9,0) P								92.0	1 .66	99.7		<u>82</u>	AC01	
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	FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - FJ-ZER-AMODL X01070	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PUI	63 63 80	100 125	77.5 83.3 82.1 82.6 83.5 85.3 87.7 89.9 91.6 97.9 101.8 108.2 79.4 81.7 82.9 84.2 85.8 87.7 87.8 91.0 93.9 90.3 103.4 109.8	80.9 83.2 84.2 84.3 85.1 87.5 88.3 91.0 95.0 103.3 105.4 111.3 107.0 143	81.2 84.3 85.8 85.3 86.4 88.5 89.2 92.1 96.1 103.6 106.0 111.2 106.8 182.1 84.9 86.7 86.7 90.0 89.9 90.3 93.7 97.4 103.7 105.6 110.5 106.4 1	84.9 85.7 87.4 89.0 88.6 90.9 91.6 95.2 98.9 104.3 105.1 108.6 104.7 142	87.5 87.3 89.3 88.8 89.9 92.3 92.4 96.6 100.1 103.4 104.0 106.4 102.3 1 86.1 89.2 90.2 90.7 91.6 92.9 93.3 97.0 99.7 103.8 104.1 106.1 100.7 1	87.2 88.9 89.9 90.4 91.7 93.6 94.2 97.4 100.4 103.7 104.2 105.6 100.6 141	87.2 90.0 90.3 90.3 90.9 93.2 93.8 98.0 100.8 103.6 103.8 105.0 99.5 140	87.5 80.3 80.9 91.6 92.4 94.5 94.8 99.1 101.1 102.5 102.9 106.3 102.0 141	86.1 90.2 91.0 91.3 92.1 93.7 94.8 98.8 100.8 101.7 101.6 106.7 102.9 141 86.1 90.2 91.0 91.5 92.3 94.6 95.2 99.2 99.8 102.2 101.3 107.1 103.1 141	86.9 90.1 91.6 91.8 92.5 94.4 95.1 98.3 100.2 101.8 101.0 107.3 103.2 141	63.3 66.6 30.2 31.2 32.0 34.4 34.2 37.6 33.6 100.5 100.2 105.8 102.1 1 62.3 87.5 89.4 90.2 91.8 94.4 93.1 97.4 96.2 99.6 98.9 104.7 100.5 1	78.6 85.4 87.5 88.8 80.3 92.4 91.9 95.3 96.1 97.6 96.4 101.9 97.9 139	71.1 80.8 82.3 84.4 88.4 89.5 67.	68.3 73.0 76.7 79.5 79.5 80.5 79.7 82.5 85.0 85.6 83.6 84.2 83.6 134	64.3 67.8 71.9 74.3 77.8 79.2 74.3 77.1 79.4 79.9 78.5 79.5 78.7 134	52.9 57.9 59.3 62.4 62.7 64.1 65.1 64.3 69.9 66.5 66.1 67.8	47.4 50.0 53.3 57.2 55.4 57.8 57.1 58.6 63.0 59.4 60.9 60.3 59.5 131	CASPL 98.1 100.7 102.0 102.5 103.6 105.5 105.8 109.5 111.7 115.1 115.9 120.4 116.3 154.4	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION CORRECTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE CORRECTION	TEST DATE 03-29-78 TAPE NG. N313 IALPHA SB59 TAMB 54.14 Location C41 Anech CH Aero. RDG. Adh227 Pamb 29.5600 Relhum 14.30	T ACCUSTIC RANGE SIZE	0A 0107A 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.66 SQ IN) - MODEL 0.		

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

AMALES HEAVIER DRIPE PRESSURE TREE PRESSURE PRE																													
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					4 July 100 100 100 100 100 100 100 100 100 10							OR OF	P			Q		YL.	ľ	_										· YES			ET SPEED (390.0 FPS)	
		•								133.5	134.1	133.5	133.6	133.7	134.5	134.6	135.3	135.9	136.9	137.6	47.0	137.7	96.9	135.4	134.0	2 CI	131.9	130.3	(V	TION CORRECTION ANCE CORRECTION	- 1	RELHUM 13.60	FREE-JET L 116.87 M/SEC (
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೫		FJ-400RAMODL XO	FROM INLET, DEGREES	20. 130. 140				•		93.9	95.0	96.7	8 97.3	2007.00	2 97.9	3 97.9	8.98	7 97.4	0.88.0	98.1	7 96.4	2 95.9	22.7	3 0	.3 81.1	.1 66.6	.0 63.3	7. 03.4	.7 109.7 1	DIAMETER (IN) 49		ADH232 PAMB	SI 2E SO CM (23 5.55	1,444
TRANSFORMED MODEL		ı Z	MEASURED	100. 110. 12				•		8	63.0		2 86.6	99.00	9.09	89.9 91.7 95	0 . CG	94.5	2	2 95.7	2 62 20 62 51 63	4 93.1	9.16	- 0	2 81.4	68.0 7	7 62.4	9. 00. 00.		JET VEL(FREE JET	- 1		ARC 139.0 8	
FLIGHT		IDENTIFICATI	ANGLES	.00					70 7 70	80.8 81.4	81.3 82.0	87.2 84.3	85.1 85.4	85.5 86.7	89.1 89.6	88.5 69.2	91.6 91.9	91.6 92.8	92.7 93.8	92.9	93.4 93.4 93.4	91.9 52.0	91.1	87.1 86.2	80.8 80.8	72.9 72.6	64.2 64.3	۵٬۰۱۵ ا	103.7	ACTOR FREE	0-78	ANECH CH A	ACGUSTIC RANGE .2 m (40.0 FT)	
0 08	•			. 60. 70.						80.8 80.	82.2 81.	87.1 82.	1 85.0 83.	96.1 86.	89.0 87.	88.5 88.	90.0	8 90.5 91.	8 91.1 90.	92.6	91.1 91.	92.2 91.	69.0 69.	9 84.1 85.4	80.1 80. 75 0 77	72.3 73.	64.5 66.	00.4 07.	2 102.2 102.1	SIZE SCALE F 000 CALC. 1.	S	LOCATION C41	2	
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		Q.									01	RIC	GII Pû	AP IOC	L R	P# Ql	IGE JAL	IS	;		÷						ET SPEED (390.0 FPS)	
		169.	67.6 15 66.0 15	67.1 1	66.0 1	64.0	63.8	50.4	59.3	60.5	58.1	56.61	51.1	32.01	12.4		150.0						76.2 167.2 78.0	İ	Ø-	.800 RELHUM 13.60	FREE-JET - FULL 118.87 M/SEC (
MODL X01095	INLET, DEGREES	o. 140.	76.0 76.2 78.1 76.9 76.2 75.8	76.5	3 75.3	. 6 73.5 6 73.5	2 72.6	2.2	6 70.5	6 70.1	. 3 69.4 . 2 68.0	.2 65.8	.3 62.0	. 55 . 55 . 56 .	.4 40.7	22.6	•						88.4 85.5 63.6 93.4 86.3 85.5	.4 68.3 85	FREQUENCY SHIFT -	1ALPHA SB59 PAMB 29.5800	S12E	
CATION - FJ-400RAMODL	MEASURED FROM	00. 110.	64.2 65.0 69.1 65.3 65.5 70.5	.0 67.5 72. 5 68.5 73.	9 70.6 74.	.6 /1./ /5. .0 72.5 76.	7 73.1 75.	.2 74.6 76.	.0 74.9 75.4	6 75.6 76.	.7 74.9 76. .4 74.1 74.	.3 72.3 73.	.8 70.8 70.	.9 59.5 62.	. 9 54.9 54.	.7 43.0 8 83.0	6.4						84.0 85.2 87.3 91.7 92.7 94.0	.7 92.7 94	8.061	TAPE NG. 9313 Aerd, RDG. Adh232	SL 9032.2 SQ CM	
IDENTIFICATI	ANGLES		.3 63.7 64.5 .4 65.1 65.1	7 69.6 66.8 8 67.4 67.9	.8 67.8 69.0	.4 71.1 71.7	7 70.2 71.1	.8 72.8 73.3	9 72.5 73.9	8 73.3 74.9	.7 73.6 74.2	.0 71.7 72.1	.8 70.8 70.9	.1 64.9 64.3	6 55.6 56.0	.3 49.6 49.6 5 32 5 33 -	2 5.7 7.0						1 83.7 84.5 5 92.3 92.8	.1 93.5 93.9	DIAMETER RATIO	-29-78 1 ANECH CH	ACGUSTIC RANGE 5 M (2400.0 FT) S	
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07/19/79 15.714								OF	IGII	JAW 700	Pi Q	AGE UAI	IS ITY									FREE-JET SPEED M/SEC (0. FPS)	dom m.	A desirated to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco
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HONEYWELL PAGE PRINTING SYSTEM - PI185-09

T													OR OF		iN.			AU!				7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -					N - YES			E-JET SPEED SEC (O. FPS)		
TOANGEADUED MADE: 641115 BBF66115F	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - FJ-ZER-AMODL X61100	ANGLES MEASURED FROM INLET, DEGREES	0. 50. 60, 70. 80. 80. 100. 110. 120. 130. 140. 150. 160. PUL				.3 93.6 93.1 94.1 93.7 95.6 98.2 101.4 103.6 110.7 115.3 121	4 92.4 92.9 94.0 95.6 96.4 96.6 101.2 105.7 113.5 117.4 122.6 116.6 1	7 94.8 95.5 97.1 97.2 99.6 100.9 104.1 1 96.4 97.6 97.7 99.3 100.0 102.3 106.2 1	1 97.6 99.2 100.4 99.8 102.7 104.0 107.7 113.7 121.0 123.4 125.0 119.5	2 111.7 110.5 112.0 107.4 106.5 105.9 109.3 119.0 128.3 132.9 133.4 125.5 1	.3 110.1 106.6 107.1 105.5 105.6 106.0 110.1 115.6 122.2 125.6 126.2 116.9 1 .1 111.7 112.2 111.3 107.4 106.7 106.6 110.5 115.2 120.8 123.0 122.5 116.3 1	3 109.5 111.1 112.8 114.9 114.8 107.4 110.8 116.8 122.7 123.4 122.6 113.3	.7 108.7 109.0 110.0 111.6 113.7 110.6 111.3 116.0 122.8 121.8 120.7 111. .7 108.5 109.6 109.8 108.9 111.6 113.1 112.8 117.1 121.7 121.4 119.5 110	6 107.0 108.5 109.0 109.1 109.7 111.6 113.7 116.2 120.6 119.8 117.7 108.4 1	.9 106.8 108.3 108.8 109.1 110.7 110.3 114.3 115.5 120.7 118.8 116.4 107.4 1 6 106 1 107 A 108 0 109 0 110 6 110 6 114 0 115 9 119 9 117 K 11K 9 106 7 1	. 9 105.6 106.7 107.5 108.6 109.7 109.6 113.1 114.9 118.1 117.0 114.6 105.4 1	3 103.7 105.9 106.4 108.2 110.0 109.0 112.3 113.7 117.9 115.4 113.1 104.6 1	.3 101.0 103.7 103.4 106.6 106.5 107.2 110.4 111.6 115.7 113.3 110.4 103.1 1 .3 99.9 90.2 102.5 104.4 105.7 107.4 105.7 108.6 109.6 114.3 111.5 108.5 101.7	.1 97.3 99.2 101.1 104.5 105,3 103.0 105.7 107	7 84.2 30.0 90.8 100.8 102.8 83.3 100.7 104.6 105.2 103.6 101.7 80.0 7 80.0 8 80.8 102.8 103.8 100.7 100.6 103.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 108.0 1	.1 85.0 88.6 90.6 93.9 94.6 90.5 93.4 95.9 98.8 94.2 89.1 86.0 1	.5 80.0 81.9 84.3 86.1 87.3 86.0 86.4 91.4 92.9 87.6 8 75.3 75.9 78.8 78.5 80.1 80.4 80.4 87 1 86.5 82.7	1 69.5 71.0 75.0 73.0 75.9 73.4 75.6 81.7 81.2 77.8 72.1 66.9 150.	.5 119.5 120.1 120.7 120.9 122.0 120.9	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 0. REFRACTION CORRECTION Input 1.000 Calc. 1.000 Free Jet Diameter (IN) 48.00 Turbulance correction	TEST DATE 03-29-78 TAPE NG. N313 TALPHA SB59 TAMB 54.32	ECCALLON CALL AMECA CIT ACENC. NOS. ADARIO FARIO ESCUDIO MELMON	TEST POINT ACQUISTIC RANGE FREE-JET SIZE SIZE (12.2 M (40.0 FT) ARC 139.0 SC OM (21.55 SQ IN) - MODEL 0. M/SEC (
				FREG 40	63 63 60 60	00	200	- 1		0000	1				9 6	98					20000 82	215000	40000	63000	00000	GASPL 111	ENITHI GÖ S	Wa 3		MODEL 0100A	161 XXINO	

					OI OI	rigin PO	IAL O F	. P	AG UA		\$ Y								SPEED 0. FPS)
		. PWL	.7 174.1 .2 175.5 .9 176.4	3 176.7 1 185.1 1 178.4	176 177	.0 176.5 .6 176.0 .8 175.0	174		2 173.5 3 172.3		5 169.4	168	166, 9 166, 5 168, 1			.0 169.6		TAMB 54.32 RELHUM 29.30	FREE-JET LL 0. M/SEC (
SB 2400.0 FT. SI X01105	DEGREES	140. 150. 160	100.3 91 101.4 92 101.6 92	.9 101.3 92 .4 109.5 98 .0 102.1 91	98. 3 86 97. 7 84	99.0 95.3 82. 98.1 93.5 79. 96.0 91.0 76.	89.0 74	87.1 72 85.8 70	83.5 68 79.5 64	76.0 59	9 61.1 41.	.5 26.1	21.12			114.2 112.5 102. 116.9 114.0 102.	SHIFT -0	ALPHA SB59 PAMB 89.5600	IZE),00 SQ IN) - FULL
ient R.H. STD. DAY, S ION - FJ-ZER-AMODL	ASURED FROM INLET, I	0. 120. 130.	88.8 90.1 92.4 1	100.1 100.1 96.6	96.0	96.12	94.8	93.6 95		87.2 89	79.5 78	60.7 68	2 20			107.4 113.1 112.9 117.2	1 FREQUEN	N313 ADH215	81 ZE 32.2 SQ CM (14G0.00
PERC FICAT	ANGLES MEASUR	0. 100.	80.8 82.0 84 82.1 83.3 86 83.4 84.6 88	- G -	.8 88.6 .7 89.2	95.4 92.1 92 92.9 94.3 93 90.7 92.6 94	0.10	90.0	.4 89.1 5 87.0	3 65.3	9 77.	£ 60.3	0 0			103.2 101.9 104.0 110.1 109.0 110.8	RATIG 8	TAPE NG	IC RANGE 2400.0 FT) SL 9032
IDENTIL		. 70.	0 76.8 78.3 8 79.1 79.6 9 79.6 81.6	62.3 82. 63.9 69. 88.8 67.	92.8 89. 94.2 96.	89.4 90.	88.9 89.	67.2 89.	8 8 9 7	63.3 85. 79.3 83	73.6 78.	58.6 63.	41.6 45. 16.8 20.			2 101.6 102.1 3 107.3 109.0	DIAM	E 03-29-78 N C41 ANECH CH	ACGUSTIC R/
		0. 60.	61.6 74.2 76. 62.4 75.0 77. 63.7 76.5 78.	6 91.7	. 1 91.3 88.9	0 10 0 0 0 0 0 0 0 0 0	6 84.6	. 7 82.0	.7 80.6 .8 76.0	8 75.5	0.00	4 44.7	20. 4.05.			89.4 96.5 100. 91.9 102.9 105.		TEST DATE LOCATION	TEST POINT 0110A
		- 1	8 8 8 8 8 8	- 1	1		- 1			1				12500 16000 20000 25000	31500 40000 50000 63000	ASPL PNL PNL			MODEL 0100 A

						PAGE QUALIT	9 Y			.46 .30	FREE-JET SPEED 7 M/SEC (390.0 FPS)		
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC IDENTIFICATION - MODEL FJ-400-AMGDL X01120 BACKGROUND FJB400-FMGDL X05220	ANGLES MEASURED FROM INLET, DEGREES	FREG 40, 50, 60, 70, 80, 100, 110, 120, 130, 140, 150, 160, FWL 50 63	86.5 89.6 90.6 91.6 91.7 94.1 95.7 96.9 101.1 106.9 113.8 119.7 116.1 1 80.1 80.9 90.9 91.7 95.9 97.0 100.0 103.4 111.5 115.6 121.6 116.0 1 80.9 90.4 92.0 92.5 93.8 56.4 97.6 100.7 105.0 114.6 116.7 123.1 114.5 1 80.9 91.3 93.6 94.1 94.9 97.3 96.7 101.6 106.0 116.6 120.0 122.7 110.6 1	91.0 93.4 94.9 94.7 96.3 98.4 99.6 103.4 108.2 117.5 120.6 121.0 108.2 102.4 105.9 108.7 96.7 102.1 100.7 102.8 108.7 113.9 123.8 127.9 125.6 108.2 104.2 102.3 101.1 99.6 99.2 100.8 102.2 106.1 111.6 118.6 121.0 118.2 104.8 107.1 108.4 107.2 104.2 102.2 103.0 107.2 111.9 117.5 120.6 116.0 102.7 1	107.0 109.1 112.1 177.9 119.0 109.1 105.2 108.1 113,1 116.2 120.7 115,1 103.6 1 102.7 103.7 106.0 109.5 111.6 111.7 107.8 108.5 114.3 119.6 120.5 115.0 104.0 1 105.7 106.2 105.2 104.5 106.6 111.9 113.6 110.5 114.5 120.9 120.0 116.2 104.9 1 104.0 105.1 106.9 107.6 106.7 107.8 111.7 112.4 115.4 120.3 119.2 115.3 104.6 1	104.2 104.) 104.8 106.0 107.1 107.2 108.8 112.8 115.1 119.0 118.4 113.7 103.0 1 102.9 103.6 104.8 106.0 105.8 108.2 108.8 113.3 114.8 119.1 117.1 113.2 102.7 1 101.5 103.0 104.2 105.4 105.6 107.7 108.4 112.4 115.1 117.4 115.6 111.1 101.5 1 101.2 102.5 103.3 104.6 105.4 106.8 107.4 111.2 114.3 116.5 113.9 109.5 99.7 1	10000 99.4 100.5 102.1 103.6 105.2 106.8 106.2 109.8 112.6 114.6 111.9 106.1 96.2 152 1250 1250 96.3 96.3 99.5 102.3 103.5 104.6 104.4 107.5 110.1 112.1 109.9 105.6 96.1 151 15000 94.3 96.5 98.1 100.1 102.2 103.7 102.4 106.1 108.2 115.7 106.9 102.8 94.5 150 2000 69.4 93.6 94.9 96.7 100.9 102.0 98.7 103.0 105.6 107.1 103.1 100.2 92.5 149	25000 87.7 90.2 92.2 93.0 97.8 97.9 96.2 98.3 102.3 102.2 99.1 96.2 90.5 1 31500 86.3 85.6 91.3 81.8 93.1 92.5 94.8 85.6 99.4 95.6 91.3 85.0 1 40000 81.3 81.1 84.2 86.3 90.3 90.8 87.1 89.9 93.7 94.2 90.8 85.8 81.0 1 50000 74.6 75.5 77.3 80.2 82.6 84.1 82.8 83.6 89.4 87.8 85.2 80.8 74.9 1	83000 68.6 69.8 70.8 74.4 74.5 75.4 77.2 77.8 64.7 81.1 79.4 74.6 69.4 1 80000 62.2 61.6 65.4 69.8 67.7 70.1 69.9 71.6 78.6 75.5 74.8 66.4 61.5 1 80000 62.2 116.3 117.6 120.2 121.2 119.3 119.7 122.0 125.4 130.9 132.6 131.7 122.0 1	. N313 14 PHA SB59 TAMB 56	MODEL TEST POINT ACOUSTIC RANGE 0100A 0112A 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.65 SQ IN) - MODEL 118.67	163	

									ORI OF	GII	NA 191	L R	PA QU	GE IAL	IS ITY	, I										FPS)
								•																CORRECTION - YES	56.46 13.30	FREE-JET SPEED .87 M/SEC (390.0
				5			49.0	88. 84. 94.0	0.4	55.2	55.3 2.4 2.5	56.1			90.0		-1.		1		48.9		169.2	i i	TAMB RELHUM	118
	T. ARC			160.			113.4 1	 - 0				4	0 4		-	44	76	10.4	9	e -	87.3 1 78.6 1	8	126.3 1	REFRACT I ON Turbulance		- MODEL
	40.0 FT.	22	9	150.			117.5	120.9	121.4	121.1	118.8	118.0	119.8	0.0	115.2	2.3	1.00.1	106.9	99.0	95.1 90.4	94.9	66.9	132.4		5859 29.5600	2
1 201100	SB	X01120	DEGREES	140.			110.9	150 100 100	118.9	120.5	120.0	120.2	120.2	4	116.6	3.0	111.4		!		86.4	., .	131.9	390.00 48.00	I ALPHA PAMB	SIZE 21.55 SQ
	DAY, SB	AMGDI.	INLET,	130.			107.2	12.4	3.50	117.5.	116.2	118.7	120.4	19.0	18.0	115.4	13.2	109.8	103.4		87.6		130.3	/SEC)		SA C
	1. STD. D/	FJ-400-AMSDL	FROM 1	120.			100.1	102.9	106.5	41 -	110.9	• •	•		116.0	• •	111.6	108.7	103.1	900	91.5 86.3	76.4	125.7	VELGCITY (FT/SEC) JET DIAMETER (IN)	N313 ADH223	0 80 0
ç	INT R.H.	N N	SURED	110.		•	93.3	6. 0 0.0 0.0	1000.1	106.6	104.2 6.2	105.5	1.07.1	7.2	1.00.	2	109.9	106.4	99.5	9 9 4 9 9	84.5		121.6	VELOCI JET DI	NG.	139,
MODE	, 70 PERCEN	DENTIFICATI	ES MEA	100.			93.8		0.70				107.4		20.0				1		95.0	.1 .	120.4	EE JET FREE	TAPE AERO.	ARC .
AT THE	F., 7	LOENT	ANGLES	8			94.1			-1 -					11.2		٠		!		97.1		121.4	FREE	5	RANGE 40.0 FT)
ū	O DEG. F.			9			93.	9 9	96	104.	90.5	121.	114.	60.	200	108	109	106	102	9 95	87.2	72.	124.4	: FACTOR 1.000	1-29-78 11 ANECH	ACGUSTIC 2 M (4
	28			70.			94	2 8		88	20.00	107.	122.	60	-	200	109		18	9 93	88.1	72.	124.9	SCALE F	92	AC0 12.2 M
				99			9	6 6 6	96	6	= 5 - 6 - 6	= 2	118.	100	10.	108.	108	50.5	9 6	96	87.4	70	123.7	. 000 CA	TEST DATE LOCATION	<u> </u>
				. 20			96	96.	96.	8	- 4 - 6 - 6	112	117.	7	5 110.6	9 6	-1	106.0	88		286		5 123.6	MGDEL/FULL INPUT 1.0	TES LC	TEST PGINT 0112A
L				•	0.55	000	94.	2 8	52	8	5 :	114	117.	22:		108	90	50.0	97.	20.00	1 87 1	69	. 123.6	MODEL		₩ e
				FREG	888	200	250	315	800	900	1000	1600	2000	3150		900	2000		2000	1500	3000	000	CASPL			MODEL 010

									0	RI F	GI P(NA DO	L R	P Q	A(GE	i I	3	,															
	·																																	E-JET SPEED SEC (390.0 FPS)
																																	13.30	FREE-JET 118.87 H/SEC (
			됩	9 172.1		8 173.4	4 173.5	172.9	-	7 175.9			· •				_		-		165.9	164.0							167.2	200			TAMB	
,			160	86.9				966		.96		80.0	76.	4.	- 8	64.7	29.	40	- 1	5							:			100.0			009	- FULL
- - - -	15 15	S	150.	98.6	103.6	97.3	94.9	9 6	94.00	94.0	-	87.8	1 .	-		74.3	68.8	58.6	92	4.73									107.7	108.6	6- 1-	ı	SB59 29.5600	2
, 38 Z400.0 FI. 3L	X01125	, DEGREES	. 140.	8 96.7	100	99	l		•	3 97.1			I			1			- 1		9								109.7	0 0	FNCY SHIFT		I ALPHA PAMB	\$12E (1400.00 SQ
	FJ-400-AMODL	INLET,	130	9.	102	97.	96	9 0	90	89.3	200	900	94.	200		93	80.	75	99	9 6	6								109.3	- 1	FREGUENCY		.	5
3.0	J-400		120.	85.7	93.6	91.7	92.0	93.7	94.0	95.9	95.7	90.0	94.2	9.00	- T	86.3	83.4	78.0	70.4	44.0	17.7								105.5	112.1			N313 ADH223	80
Z .	NO I	URED FROM	10.	91.0	83.4 4	88.6	96.0	87.1	88.4	90.5	92.2	93.6	92.4	50.0	9 Q	95.3	82.0	76.2	68.0	4 6	16.7								9.50	09.3	A 061	5	 	9032.2
/U PERCENI K.H. SID. DAY,	CATIC	S MEAS	100.	79.2												ы.														2.80	, C	2	TAPE IERG. F	8
?	DENTIFICAT	ANGLES	ė	79.2	- e	9	8	ui u	, ao		- ^	. 0	6	<u>.</u>	- 1	9	4	0	aj.	<u>-</u> نو	· -								6	4 10	FR RATE	ı	₹	E FT)
U DEG. F.,	0		90.	78.0 7	- 10	10	0	o d	01	4	<u>.</u> د	ю	0	٠, ٥	20	0 4	9	, .	٥	ρŒ	0								۰.	4.1.109	DIAMFTER		₽ 5	COUSTIC RANG
0.00 0.00 0.00			Ġ	0.	0 4	0	7.	ن د -	-	9	40	1		٠. ١	ء و	2	۲.	-	4	<u>ه</u> د	0								9	2 1 1 2 1 1 2 1 1 2 1 1 2 1			3-29-78 11 ANECH	COUST
			0	77	O (1	0	0	4.4	7		- r	. 0	4	n c	n o	14	7	Ö	æ	ے م د	ı -						•		.0 105	0			TE 03	731.5
				77		1	1 96	9 6	9	3 93	5 E	4 89	9	0 °	0 d	1													.5 103	8 =			TEST DATE LOCATION	F .
			8	76.	7.	79.	94.	87.	6	-10	G	98	87.	90	0 0	91.	78.	72.	63.		;								102	800		į	H H	TEST POINT 0112A
			6	74.3															-1										100.6	105.5				
			FREG	200	9 6	100	125	160	200	315	4 K	930	800	000		2000	2500	3150	4000	2000	9000	0000	12500	20000	1500	40000	3000	80000	ASPL	PNLT				MODEL 0100A

07/19/79 15.714				00	RIGIN/ F POC	PAG R QUA	ie is Lity					FREE-JET SPEED M/SEC (0. FPS)
PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE RCENT R.H. STD. DAY, SB 40.0 FT. ARC	BACKGROUND ES MEASURED FROM INLET, DEGREES	100, 110, 120, 130, 140, 150, 160,	PWL		.6 94.1 96.3 102.7 106.6 113.2 110.1 1.1 94.2 96.2 104.3 106.4 114.6 110.5 1.6 95.3 99.5 106.3 110.7 115.6 111.3 1.6 95.8 100.5 106.1 111.8 115.6 111.3 1.6 95.8 100.5 106.1 111.8 115.6 111.3 1.6 95.8 100.5 106.1 111.8 115.6 111.3 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.8 115.	.6 98.2 102.7 109.7 112.4 117.3 112.4 13.0 100.0 104.9 110.0 111.6 117.1 113.0 1.7 100.8 106.1 110.4 110.5 116.2 112.1 1.3 102.0 106.4 111.3 112.1 117.3 112.5 1	98.7 102.6 106.1 110.0 110.4 116.1 111.9 1 99.1 103.3 106.8 110.4 110.3 116.0 111.0 100.1 103.2 106.5 111.1 110.5 115.7 109.4 100.4 104.3 106.9 110.3 110.4 115.0 108.5 1	00.1 103.8 106.3 108.7 110.3 113.4 107.4 1 00.2 103.7 105.5 108.7 109.8 112.4 106.9 1 99.8 103.3 105.0 107.5 108.3 111.5 106.4 1 99.0 101.8 104.6 106.3 106.2 110.1 105.4 1	.6 101.4 102.9 104.3 104.4 108.4 103.3 1.9 99.5 100.4 101.8 101.7 105.7 101.1 1.7 97.1 97.9 100.1 99.1 103.1 98.8 1.7 93.3 94.8 96.0 95.8 100.0 25.7 1	87.0 88.8 91.8 90.8 91.0 95.4 93.5 139.3 83.2 85.0 88.2 88.6 88.3 90.2 87.6 138.5 79.8 90.1 82.9 83.6 83.0 84.3 83.2 137.7 73.0 72.5 77.3 77.2 77.6 79.8 77.9 136.0 67.6 66.3 72.7 70.2 71.1 74.3 72.3 135.3 59.8 61.1 66.8 63.4 67.4 67.3 65.0 136.1	TAPE NG. N313 IALPHA SB59 Rg. Rdg. Adh228 Pamb 29.5600 Re	SIZE ARC 139.0 SQ CM (21.55 SQ IN) - MODEL 0.
L sauk	ANGLES	40, 50, 60, 70, 80, 90,	FREG 50 63 60		82.0 86.3 85.3 87.1 87.0 89.3 83.1 86.2 87.2 87.5 89.6 91.4 85.2 86.9 88.2 88.3 89.1 91.2 86.0 88.0 89.6 80.4 90.8	86.6 89.4 90.9 90.9 92.8 94.2 90.1 89.9 91.7 92.7 92.6 95.2 94.2 94.1 94.2 96.3 91.1 94.4 95.7 96.2 96.6 98.4	95.2 92.6 94.1 94.9 95.7 98.3 94.5 94.7 85.3 95.3 95.4 87.6 93.4 94.5 95.2 96.0 96.3 97.9 194.7 94.8 95.1 96.1 96.4 98.8 1	94.1 94.3 95.8 95.5 96.6 98.4 1 93.8 93.7 94.5 95.2 96.3 98.4 1 91.4 92.6 94.4 94.5 96.0 99.1 90.3 93.6 94.7 94.5 95.5 97.4	67.3 92.2 93.9 93.4 95.6 97.9 63.8 69.9 91.6 92.8 94.3 95.7 81.1 86.7 89.6 91.3 93.2 95.0 76.1 84.0 85.3 88.2 91.7 92.7	25000 74.2 80.2 82.7 83.7 88.3 89.4 831500 72.0 75.5 79.7 82.5 82.8 83.8 40000 67.3 69.8 74.4 76.6 81.0 81.2 50000 65.6 64.9 67.0 69.9 73.1 73.8 63000 75.4 59.4 61.0 64.1 64.9 65.6 6000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 10000 49.4 51.5 55.1 59.0 58.4 60.5 100000 49.4 51.5 55.1 59.0 58.4 60.5 100000 49.4 51.5 55.1 59.0 58.4 60.5 100000 49.4 51.5 55.1 59.0 58.4 60.5 100000 49.4 51.5 55.1 59.0 58.4 60.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.4 51.5 50.5 100000 49.5 50.5 50.5 50.5 50.5 50.5 50.5 50.5 5	TEST DATE 03-29-78 LOCATION C41 ANECH CH	MGDEL TEST PGINT ACCUSTIC RANGE 0100A 0113A 12,2 M (40.0 FT)

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. ARG		160. PWL	10.1 144.9	10.5 146.2	12.1 148.8	10	- 4	3 0	11.0 148.9	08.6 148.5	. 0		03.3 144.6	- 0 !	- w	67.6 38.5 83.0 137.7	9	72.3 135.3 65.0 136.1	122.8 160.7	REFRACTION (Turbulance (TAMB 30 RELHUM	HODEL
130	DEGREES	140. 150.	1.0 113.2 1	7 11	1.0 116.9 1	1	==	116.	116.0 1		12.4	n	108.4	103.1	.0 100.0 .0 95.4	3 80.2	9.00	4 67.3	122.5 127.5 1	0. 46.00 T	LPHA 5859 PAMB 29.5600	56 SQ IN) -
FJ-ZER-AMODL XO1	INLET,	. 130.	3 102.7 106	104.3 10	109.1	110.011	4.011	10.01	110.4	10.0	108.7	107.5	104.3	• .	- 6	(a) (d		63.4	121.4	/SEC) (IN)	Y.	S12E CM (21.56
	SURED FROM	110. 120	94.1 96.		— -	1	106	9 19	-	104.3 106.9	200		102	- > (88.8 94.	0 -	- w	3 72	114.1 117.2	VELOCITY (FT, Jet diameter	NG. N313 RDG. ADH228	139.0 80
ENTIFICATI	ANGLES MEA	90. 100.		2 92.	93.	2 96.	.3 97.7	.08	.66 99.	988	100	- 4	.9 97.	. 0 !	.4 87.	.8 83.	73.	. 5 67. 5 59.	09.7 110.7	FREE JET FREE	TAPE AERG. 1	OE FT) ARC
		. 60.	0	89.6 89.1	9.00	92.6	1 94.2	93.7	95.4	96.4	96.3	96.0 95.0	95.5	83.5	91.7 88.3	82.8 0.29	73.1	58.4	.6 107.6 10	FACTOR . 000	03-29-78 C41 ANECH CH	ACCUSTIC RANGE 2 M (40.0 FT)
3 .		60. 70		2 87.	9	7 92.	.3 94.	. 1 94	.3 95.	95 96.	5	4 7	93	6.0	.3 88. 7 83.	.7 82.	69 .0	1 59.	106.2 106.	ZE SCALE CALC. 1	TEST DATE 03-	12.
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																																	54.14		FREE-JET SPEED O. M/SEC (O.
	PW	85.9	6.99	67.4	167.5	167.0	168.1	67.0	67.0	0.79	, c	00.00	64.7	63.8	6.29	61.3	60.5	128.1	57.4	56.6	62.9	54.1	63.4	04.0					78.5				TAMB	LMC	
6																62.3						_							2.1	94.0					FULL
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X01135

IDENTIFICATION - FJ-ZER-AMODL

									Ol Ol		Gil PO			Ac VU(3 Y								58.46 12.50				
NOISE					PWL		40.0	6.0	42.3 6.0	6.18	7.5	. e	61.0 60.0	1.1	40.9	40.7	40.5 80.5	40.3	30.0	37.6	35.3 35.3	35.1	32.2 32.9	54.1	TAMB 5	1 9	-1		
	. ARC	00		160.			05.114	0	02.5 14 98.6 14	4	io «	4	ω 0	G	60 0	9 0	90.0 14	- 6	i	م اره	4 6	9		09.9 18		5	1		
	40.0 FT. ARC	X01150 X05220	40	150.				6			- 0	. –	. c	0	_	۰.	98.6	0		-	5 4	76.9	0 N	117.4 1	SB59 29.5600	3		:	
	-	AMODIL	DEGREES	140.			102.0		106.4	167.4	106.6	105.6	104.4	103.0	102.9	102.1	101.6	100.5	96.0	- 1		78.4		116.7	ALPHA	SIZE			
CORRECTED	DAY,	FJ-400-AMGDL FJB400-FMGDL	INLET,	130.	,		1.72	90	103.0	105.2	106.3	106.3	106.0	106.4	105.0	9.9	103.6	102.0		94.1	9 0 9 0 9 0	80.6	65.7 58.8	117.1	_	3	-		
	4. STD.	ROUND		120.	•			8	9.4 0.4	97	_	5		9	102	10.	5	6	3 6	8	5 G	197	70.6 63.5	112.9	N313 ADH225	S	3		
ESSURE LI	ENT R.	MODEL BACKGROUND		110.			1	8	8 8	92	Q 0	6	68	8 6	6	9 69	8 8	6	2 9	6	8 8	78	65.4 59.7	109.8	E NO.		2		
SGUND PRE	O PERC	- NDIT	ANGLES ME	100			98	98	88	89.	8 8	8	9 9	ä	8	98	8 9	93		88.		76.	İ	106.2	TAPI				
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	ш	IDE		90			62	8	83.	88.	87.	8	8 6	8 6	5	9 6	2 2	6	06	68	80.0	7.0	0 64. 9 58.	5 102.	-29-78	ACOUSTIC			
UNTRANSFORMED	29.0			70			81	95		85.		89.	88	98	8	8 6	86	8		82.	. 99 . 90	75.	59.	8 101.	93	9	ע ע		
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SSURE LEVELS SB 40.0 FT. ARC X01150	DEGREES	140. 150. 160. PWL		0.1	4040	104.2 99.4 102.0 98.7 100.5 97.5 100.2 98.2	.2 102.7 99.7 16 101.8 98.9 1	103.2 100 104.3 103 105.1 103 104.5 102	102.8 101.8 98.6 99.0 93.8 95.9 90.7 92.7	8 94.3 87.6 8 79.2 81.8 8 73.6 76.5 6 66.8 70.4 8 57.0 60.6	115.8 117.3 113.6 154.8 390.00 REFRACTION CORRECTION - Y 48.00 TURBULANCE CORRECTION - Y	ALPHA SBS9 TAMB 56.46 PAMB 29.5600 RELHUM 12.50	SIZE 21.55 SQ IN) - MODEL 118.87 M/SEC (3
TRANSFORMED MODEL SOUND PRESSURE 70 PERCENT R.H. STD. DAY, SB. SHIFICATION - FJ-400-AMODL X01	MEASURED FROM INLET,	00. 110. 120. 130.		65.0 89.5 95	.8 85.6 91.6 1 .9 87.6 93.1 1 .3 88.5 95.6 1 .5 90.6 97.8 1	.9 92.1 99.7 104 .1 94.0 100.1 104 .8 95.2 100.9 104 .7 96.1 101.6 104	. 9 97.3 102.7 104 . 9 97.3 102.7 104 . 4 98.9 102.7 104 . 4 99.4 102.4 105	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	.5 96.9 98.7 101 .1 96.1 97.4 97 .0 93.1 92.6 91 .1 87.2 92.1 91	0 85.4 1 72.0 0 65.5 60.1	.0 109.3 113.2 116.4 ET VELÖCITY (FT/SEC) EE JET DIAMETER (IN)	TAPE NO. N313 I.A.A.ERO. RDG. ADH225	ARC 139.0 SQ CM (2
FLIGHT TRANSFORM 59.0 DEG. F., 70 PERCE IDENTIFICATI	ANGLES	. 70. 80. 90. 1		64.5 83.6 83.6 8	84.5 85.1 86.0 85.3 85.5 86.1 85.7 86.8 87.5 87.6 91.7 89.0	99.6 89.4 90. 90.4 89.9 91. 90.6 92.0 92. 93.1 92.6 93.	92.6 92.6 93.7 93.1 93.3 94.4 93.6 94.5 95.7 94.3 94.6 96.4	4 94.8 94.7 96.9 5 95.0 95.1 97.2 5 94.7 94.9 96.2 4 94.2 95.3 96.7	94.4 94.9 95.3 93.8 95.1 95.1 93.3 93.8 93.1	3 84.3 84.9 84.7 84 3 81.6 84.0 83.1 78 3 77.4 76.5 76.0 73 2 70.6 68.6 68.2 68 1 62.2 62.8 63.4 61	0 105.6 106.1 107.1 1 SCALE FACTOR FREE ALC. 1.000	03-29-78 C41 ANECH CH AE	ACOUSTIC RANGE 12.2 M (40.0 FT) A
		40. 50. 60 FREQ	50 63 100 100	84.3 86.2	84.3 86.2 86.4 86.9 87.1 87.4 87.4 88.4	85.0 91.5 91.3 89.1 92.7 90.0 92.3 93.5	93.7 92.7 92.6 92.9 93.6 94.2 94.1 94.1	95.0 94.8 94.1 94.6 94.6 94.5 97.1 96.2	95.5 95.9 91.8 92.8 91.1 92.9 85.8 89.0	31500 83.6 85.4 86. 40000 78.1 77.2 80. 50000 76.2 74.8 77. 63000 68.9 69.0 69. 80000 60.6 61.1 61.	105.7 105.9 106 MGDEL/FULL SIZE INPUT 1.000	TEST DATE LOCATION	MODEL TEST PO:NT 0100 A 0115 A

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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		PWL	69.3	50.1	38.5	58.5	50.0	36.6	- G	39.6	0.09	60.4	6.09	60.8	160,5	9'65	100	26.2	55.6	0. FU	163.7							172.7			TAMB 58.46 RELHUM 12.50		FREE-JET . 118.67 M/SEG (
		50. 160.	4 -	72.9	5 72.2	1 71.3	69.7	. 67 05. 1 0 05.	3 70.0	7 68.2 1	.9 68.0 1	5 69 9	3 68 0 1	9 66.2	.8 63.0	1 57.2	- 100	0 17.8	2	_	 •	_					-	4 6	93.7 85.0	gi I	SB59 29.5600 RE		IN) - FULL	
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				-	7 87	88.5	20.	2.7.	95.	97.1	95.6	96.4	96.2	96.2	91.3	8e.6 55.8	82.9	72.9	67.5	0.75	106,8	\$15E	TEST DA	TEST POINT

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

						(O)	iG F	iiN O	AI Of	. F	?A	G E	: K	3 Y															FREE-JET SPEED M/SEC (0, FPS)	· · · · · · · · · · · · · · · · · · ·
: 1																												55.58 21.80	O.	
	3	167.5	69.0	169.4	170.1	169.5 168.8	168.7	166.9	166.8	166.1	164.7	163.3	162.9	160.4	155.3	158.8	156.6	157.7							180.4			TAMB		
	160.	65.4	900	87.4	86.9	83.0	80.4	76.4	74.3	72.9	68.4	63.8	 	40.6	19.9										95.7	97.6			- FULL	
£ 63	150.	2.7	- P 6	95.0	95.9	9.00 0.00 0.00	32.1	9 6	96.2	64.0 0.0	30.2	77.0	67.0	38.3	43.8	4.									204.0	106.6	FT -9	\$859 29.5600	SO IN	٠
XO1165 DEGREES	140.	91.3	9.00	91.0	92.3		90.6	86.7	87.7	65.7	81.7	78.5			-1	38.6									102.4		ICY SHIFT	ALPHA	\$12E (1400.00 \$	
R-AMODL INLET,	130.	89.7	4.	- C.	92.3	90.72	9 9 9	9 69	88.0	86.4	63.4	79.9	70.0	63.9	59.1	45.00 0.10	63.					•			101.8	106.0	FREQUENCY	-	C# (140	
FJ-ZER-AMODL FROM INLET,	120.	81.5	4.4.5	87.1	68.1	68.3 88.2	87.6	86.7	85.9	60 K	(a)	75.9	74.0	69.6	61.1	50.1	2,0									103.6	u.	N313 ADH217	2 80 6	
JON - F	110.	77.6	90.00	83.4	84.4	84.8 84.8	65.1		84.8	6 2 2 2 3	82.9	79.6	74.3	67.6	60.8	30.0		, ,							98.6	101.7	8.061	E NG.	9032.	
SAT ME	100.	75.5	20.00	90.1	81.9	. 10 04 10	82.2	81.4	4.19	80.6	70.2	77.3	70.7	67.3	60.3	50.00 0.00 0.00	11.6								92.8		RATIO	TAPE AERO.	SL	
IDENTIFI	8	74.0	77.1	70.1	62.1	80.0	80.4	80.7	79.9	70.0	80.1	78.1	74.0	70.5	61.6	55.0	20.00								9.00		DIAMETER F	.	1C RANGE 2400.0 FT)	
	90.	72.3	75.6	76.9	79.9	78.9	79.2	77.6	77.6	77.8	70.0	76.0	73.0	68.8	59.9	53.0	9 6	. !							. 60	-1 -	DIA	_	COUSTIC F	
	70.	70.5	73.1			77.8									.1	47.8 20.7		. !							98	• •		03-2 C41	ACGI 731.5 M	
	60.		72.4			76.1			1						1										67.7	•l •		TEST DATE		
	8	67.	20.9	7	7;	73. 76.	74.	, 4	7	, ç	69	67.	9 6	4	43										4.00	. 1.		TES	T POINT 0116 A	
	6	20	66.7	7	2	3 %	2.55	, <u>-</u>	70	99	62	28	. 4 . 6	43	ह	<u> </u>									82.3	67.			ok ملا	
	. 01	100	3 2 3	125	160	200	315	800	630	000	1250	1600	2000	3150	4000	5000 5000	0000	10000	12500	2000	20000	40000	50000	90000	OASPL	PNLT			100EL 0100	74

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07/19/79 15.714			ORIGINAI OF POOF		IS TY	3.42	• 1 1 1
PRESSURE LEVELS CORRE ERCENT R.H. STD. DAY, N - MODEL FJ-ZER- BACKGKGUND	ANGLES MEASURED FROM INLET, DEGREES FREG 40, 50, 60, 90, 100, 110, 120, 130, 140, 150, 160, FREG 53 80	0 67.8 67.3 67.1 67.8 89.6 92.5 95.1 97.1 103.4 106.0 114.5 110.6 145.1 86.2 87.4 88.2 90.3 92.4 93.1 95.0 96.9 105.8 109.9 115.8 112.0 147.9 87.9 88.2 88.5 89.6 92.0 93.6 95.8 100.2 109.5 112.4 116.8 112.3 148.2 87.1 101.0 110.4 114.0 117.9 112.5 150.	87.6 89.9 91.2 91.2 92.8 94.7 95.8 98.9 103.7 111.0 114.4 118.3 113.4 191.1 90.4 92.2 93.7 93.6 95.9 97.1 100.2 105.2 111.3 114.1 118.6 114.0 195.0 93.8 95.3 94.3 94.7 96.8 96.4 101.1 106.3 111.1 113.0 117.9 113.6 192.6 95.4 97.2 96.7 97.5 98.9 99.8 102.6 106.9 111.3 114.1 119.6 113.9 194.5 93.8 94.9 95.7 97.5 98.9 99.8 102.6 107.4 111.7 112.9 118.6 113.9 194.1 95.2 96.7 97.0 97.0 99.2 100.8 104.0 107.2 111.6 112.8 117.4 110.4 1	95.5 96.6 96.1 96.8 97.1 99.8 100.9 104.8 108.1 110.8 113.1 116.3 108.5 149 94.6 95.5 96.5 96.3 97.3 99.7 100.3 104.5 107.0 109.5 113.1 114.2 108.2 148 93.8 95.7 96.5 96.8 96.9 101.0 104.7 107.0 109.7 112.0 112.9 106.9 148 91.4 96.6 96.4 96.8 97.6 99.9 101.0 104.7 107.0 109.7 112.0 112.9 106.9 148 91.4 95.6 96.2 96.8 97.6 99.9 100.9 104.3 106.0 109.1 110.3 112.8 106.9 148 91.4 95.6 96.2 96.5 97.1 99.0 99.8 103.1 105.4 107.6 108.5 110.9 105.1 146.9 105.1 146.	88.2 90.2 93.1 95.9 96.0 97.1 98.7 98.9 102.2 104.0 106 85.2 90.2 93.1 94.1 95.6 07.3 96.7 100.4 101.6 103 82.2 88.1 90.6 92.4 94.5 \$6.1 95.0 97.7 89.0 101 77.2 84.2 87.4 69.7 93.0 94.2 92.0 94.8 96.4 97 74.8 81.2 83.6 85.3 89.9 91.3 88.6 83.8 93.6 92.7 75.8 76.6 81.0 85.3 82.6 83.1 84.6 86.4 89.1 96 67.9 71.1 76.0 77.9 82.6 83.1 79.7 81.7 84.2 84.	61.0 66.0 68.6 72.3 73.9 75.4 74.4 74.6 79.4 78.3 79.9 82.4 77.7 137 55.2 59.8 62.6 65.4 66.0 67.4 68.7 67.6 74.0 71.9 75.2 75.6 72.9 137 49.0 51.6 56.7 60.6 60.0 62.1 60.7 61.9 68.1 65.7 71.0 63.6 64.8 138 104.7 106.3 107.5 107.7 108.5 110.5 111.5 114.9 118.1 122.4 124.7 129.0 123.8 162 104.7 106.3 107.5 107.7 108.5 110.5 111.5 114.9 118.1 122.4 124.7 129.0 123.8 162 162 163.8 163 163 163 163 163 163 163 163 163 163	ACCUSTIC RANGE 2.2 M (40.0 FT) ARC 13\$.0 SQ CM (21.55 SQ IN) - MODEL Q

59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC IDENTIFICATION - FJ-ZER-AMODL X01170 ANGLES MEASURED FROM INLET, DEGREES 70. 60. 90. 100. 110. 120. 130. 140. 15G. 160. PMI	PVIL				88	170
DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. IDENTIFICATION - FJ-ZER-AMDL X01170 ANGLES MEASURED FROM INLET, DEGREES 60. 90. 100. 110. 120. 130. 140. 150. 16	1				138 162 CT 10 LANC TA	ó
DEG. F., 70 PERCENT R.H. STD. DAY, IDENTIFICATION - FJ-ZER-AMDDL ANGLES MEASURED FROM INLET, 60. 90. 100. 110. 120. 130.	156. 1	114.6 110 116.6 112 117.9 112	01110.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	112.0 112.9 106.9 110.3 112.8 106.9 106.9 107.2 110.0 104.1 101.2 101.7 101.7 101.7 101.2 93.6 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8	68.6 64.8 129.0 123.6 00 TURBU 3859 29.5800	SO IN) - MOI
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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TOLIOOTOO CHILDO ITCAM CTXCATONACT	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC	IDENTIFICATION - FJ-ZER-AMODL X01180	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160. PUL	80 63 60 60	83.5 88.1 88.1 88.2 90.3 92.7	84.4 86.7 87.9 89.0 90.6 92.9 93.6 95.7 99.2 105.6 110.4 116.6 112.5 146.	400 60.7 60.2 68.0 68.0 80.5 87.0 85.2 87.1 101.0 112.8 116.1 112.6 150.7 650 68.0 68.1 67.0 87.2 67.0 68.3 67.0 68.3 67.0 68.3 67.0 68.3 67.0 68.3 67.0 68.3 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	92.1 90.9 93.4 94.0 94.1 96.4 97.8 101.2 105.7 111.6 114.6 119.6 114.7 151	96.0 95.5 96.3 95.3 95.4 97.6 98.7 102.6 107.6 112.1 113.8 119.4 114.8 151 94.1 96.2 98.2 98.0 99.7 101.0 104.2 108.2 113.5 115.0 120 K 115.2 152	95.0 94.3 96.1 97.1 97.7 99.6 101.0 104.6 109.9 114.0 116.7 120.4 115.1	96.7 97.5 97.0 96.8 96.8 98.9 100.6 104.3 109.6 112.6 114.0 118.7 112.2 151 95.4 96.7 98.2 98.0 98.0 99.7 101.8 105.2 108.5 113.1 115.0 117.4 110.4 151	96.7 97.3 97.1 98.1 97.9 100.5 101.4 105.3 109.3 112.5 115.4 115.9 109.0 1	95.1 96.0 97.0 97.7 98.0 99.9 101.6 105.6 107.6 111.5 112.8 112.9 107.1 143	93.4 96.1 97.1 97.6 99.1 100.7 101.6 105.1 107.2 110.1 110.6 111.5 106.4 146 91.6 96.1 97.2 97.3 96.1 99.5 100.3 104.1 106.4 108.6 109.0 109.9 105.1 147	89.1 98.8 95.7 96.7 97.6 100.0 99.6 102.9 105.2 107.4 107.7 108.5 103.8 146	63.4 89.1 91.6 92.4 94.6 97.1 95.5 99.2 99.7 103.0 102.0 103.9	77.7 85.9 88.2 80.5 93.0 94.8 92.7 95.6 97.1 98.6 98.4 100.6 96.1 142 76.8 62.7 84.5 86.3 90.9 91.5 89.1 90.1 93.9 93.7 93.6 96.5 94.3 141	74.3 78.1 82.3 84.6 85.1 85.9 85.1 87.1 90.3 91.5 91.2 91.1 87.4 140	63.2 67.7 69.6 73.3 74.9 76.9 74.9 75.1 79.9 80.0 80.4 80.6 77.7 136 87.7 62.0 64 67.2 67.3 60.7 80.0 68.5 74.8 73 1 75.3 74.9 75.3 60.7 80.0 68.5 74.8 73 1 75.3 74.6 72.3 137.3	51.2 53.6 57.9 61.8 60.2 65.4 61.4 62.7 69.1 67.0 71.0 67.6 64.8 1	DASPL 105.9 107.2 108.3 108.7 109.2 111.3 112.3 115.8 119.3 123.8 126.1 129.8 124.5 163.0	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 0. REFRACTION CORR Input 1.000 Calc. 1.000 Free Jet Diameter (In) 48.00 Turbulance corr	CH AERG. RDG. ADH230 PAMB 29.5600 RELHUM 15	MODEL TEST PGINT ACCUSTIC RANGE 0100A 0110A 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.65 SQ IN) - MODEL 0,	

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X01185

IDENTIFICATION - FJ-ZER-AMODL

					ORIGIN OF PO	AL PA DR QU	GE IS ALITY				FPC)	
	·									3,42	FREE-JET SPEED M/SEC (0.	
CORRECTED FOR BACKGROUND NOISE DAY, SB 40.0 FT. ARC J-ZER-AMODL X01190	0. 160.	ļ		.6 112.0 147 6 112.0 147 6 112.5 149 9 112.6 150	3 113.9 151 2 114.2 151 8 114.3 151 8 15.0 153	9 114.1 152.7 112.0 151.7 110.7 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.0 151.	.2 107.7 149 .9 107.4 149 .5 106.7 148 .6 105.4 147	7 104.1 146. 0 101.9 145. 2 99.9 144. 0 96.6 143.	94.1 9 84.5 9 78.7 1 73.7 6 66.3	SB59 TAMB 63 29.5600 RELHUM 15	Ş	
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RCENT R.H. STD - MODEL BACKGROUND	MEASURED FROM			95.4 97. 95.7 99. 96.0 100. 97.6 101.	8 199.7 101.8 103.6	3 104.1 108.3 108.9 105.0 108.	3 105.5 106. 5 105.7 107. 1 104.8 106.	1 102.9 104. 5 100.9 102. 8 98.9 99. 8 95.6 96.	69.1 90.1 93.9 65.1 67.1 90.1 79.7 81.5 64.3 74.9 75.1 79.2 69.0 68.6 74.3 61.2 62.7 68.1	112.1 115.7 118.8 TAPE NO. N313 AERO, RDG. ADH229	139.0 SG	
UNINANSPONDED FOUEL SOUND 59.0 DEG. F., 70 PE IDENTIFICATION	ANGLES			1 67.5 90.1 7 90.1 92.7 0 90.3 92.5 8 91.4 94.0	93.6 94.9 94.3 96.6 95.7 97.3	97.2 99.8 1 26.8 98.7 1 98.0 99.4 1 97.9 100.3 1	3 97.6 99.7 1 2 97.8 100.1 1 97.6 100.2 1 0 97.6 99.5 1	98.1 99.5 96.4 97.5 95.1 97.1	00040-	3 109.2 111.1 29-78 ANECH CH	RANGE 40.0 FT)	
99	60. 60. 70			. 6 67.3 66. . 7 69.2 69. 3 90.3 90.	.4 91.2 92. 9 92.7 93. 8 96.1 95. 9 97.9 98.	.6 95.4 96. .7 97.0 96. .5 97.5 97.	5 97.3 97. 2 97.0 97. 6 57.4 97.	.3 95.7 96. .7 92.8 94. .1 91.6 92. .9 87.7 89.	92.2 64.5 85. 77.8 92.0 84. 72.1 77.0 79. 67.0 68.9 73. 62.0 63.4 67.	07.1 108.1 108. TEST DATE 03-	PGINT 19A 12.	
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INLET, DEGREES	140, 150, 160,	91.6 92.6	5 95.7 96.9 1	91.9 95.3 86.9	94.3 96.7 67.2	92.4 93.9 83.1	2 92.3 61.0 1 90.5 78.3	1 87.5 76.0	6 84.4 72.8	6 61.9 70.4	80.1 67.6 1 76.0 63.1	71.6 58.0	0.00	9 60		165.6					. 9 95.6 180.9 . 8 95.4	0	6-	SB59 TAMB 63.42 29.5600 RELHUM 15.40	FREE-JET IN) - FULL 0, M/SEC (
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VELS STD.	FJ-ZER	FROM INLET	120. 130				6	4 109		6 116	116	.2 116	7 116	116	.7 117		11.2 115.	7	. ro		•	. 6	4	84.2 84.9 79.9 79.9	122.8 128.	N313 Adh213	
SSURE ENT R.	- MODEL BACKGROUND	ASURED	110.				99.4	97.7	3 98.7 1 4 99 A 1	101.9	103.9	105.0	106		108		100	107.9	106.3		97.3	O 10	83.0	77.1	8 119.1 1	R NG.	
SOUND PRE	CATION	ANGLES ME	90. 100				3 95	. A	. 2 96. 4	98	9 100	01.0 101.4	4 103	102	2 104	0 103	17	0 105	03.7 103.4	4 101.	3 96.	922.	.8 82.	6.0 77. 0.5 69.	5.5 115.	TAPI AERG.	
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		o. PWL			. 1 149.7		. 6 154.6		3 156	 o	0 155	01 I	3 152	3 152	20 152 152	- 15 - 15	150	7 149	-	7 148	1 146	00	.2 167.1	WEFRACTION CORRECTION Turbulance correction	TAMB RELHUM	MODEL 0
019	ຶ່	150. 160	:		118.2 115	9.	122.4 116.	.8 118	118	0. 116	113	17 C		.5 107	200	. so .	103	96	.2 97	. 3 . 4 . 5 . 7	85.7 82	-	132.9 127.2		\$859 29.5500	# - (NI OS
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ı No	MEA	00. 110.			95.7 98.4			0	41	. 69	•	က d	9	-	ن د	, ro		0	-ŀ	- "	10	- -		JET VELOC FREE JET D	TAPE NO. AERO. RDO.	ARC 139
1 DENT I F I CAT I	ANGLES	90.			0.00	9 6 0 0 1 0	96.8	98.9	20.0	102.4	102.0	102.1	103.0	104.2.1	105.7	105.6	103.7	. 6.	98.3	93.1	83.8	70.5	115.51	FREE	CH AE	
		70. 80.			-	91.55 92.6	ယ ဇ	96 6	.3 98.		.0 99	e .	. 6 102.	.8 103.	. 8 103.	7	- 4	100	.5 97.	6. P	G	0 68.	.1 113.	LE FACTOR . 1.000	03-29-78 C41 ANECH	ACCUSTIC RANGE.
· ř.		. 60.			C .	i vi	60 60 60 60 60 60 60 60 60 60 60 60 60 6	95.7	90.00	0.66	100.0	101	103.8	102.8 1	101.0	10.4	99.80 F R	94.7	92.0	. 0 . 0	77.8	72.0	112.9 1	SIZE SCALE GOO CALC.	TEST DATE C	NT 12.
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

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					ORIGIN OF PO	AL PA	ge is Ality					SPEED 0. FPS)	
			D C 4 0	a ~ a -	60 ús 60 01	4 5 5	~ ~ 6 -	- 1 0 00 0		•	E 63.60	·	
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X01215	DEGREES	140.		'i -	1	90.0 98.4 86.5 7	ŀ	Ĭ		100.3	SHIR PHA	8	
-AMGDL	INLET,	130.	0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 8 0 0 0	96.00 9.00 9.00 9.00 9.00 9.00	92.3 90.5 90.5	96 74 67	3 25		107.2		M (146	
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						PAGE QUALI	is Y		t i	67 M/SEC (390.0 FPS)	
H. STD. DAY, SB. 40.0 FT. AGC H. STD. DAY, SB. 40.0 FT. AGC FJ-400-AMODL X01220 ROUND FJB400-FMODL X05220) FROM INLET, DEGREES 120: 130, 140, 150, 160.		96.3 102.9 106.3 115.0 111.4 146. 97.7 106.0 109.6 116.1 111.5 147. 99.0 109.0 113.2 117.6 110.0 149. 100.8 111.6 115.0 117.7 107.6 150.	103,2 112,5 116,4 117,5 104,7 150, 104,9 113,0 116,6 115,8 102,5 150, 106,6 113,4 115,5 113,7 100,6 149, 107,2 112,5 115,4 112,0 98,7 149,	107.9 113.0 114.4 111.1 56.4 1 109.0 113.6 113.8 109.5 58.7 1 109.2 114.6 114.3 110.7 59.4 1 109.6 114.0 113.9 110.8 59.3 1	109.6 113.6 113.9 109.5 98.7 149 109.3 114.6 112.8 108.4 98.2 149 109.8 113.9 111.4 107.6 98.0 149 109.0 112.5 109.9 106.0 96.7 148	107.6 111.1 108.1 105.1 95.4 1 105.6 108.1 105.9 103.1 93.8 1 103.4 106.4 102.9 101.1 92.3 1 100.3 102.8 99.3 97.7 90.7 1	97.1 97.4 95.1 94.2 69.0 1 93.6 95.2 92.1 69.0 63.3 1 88.2 89.5 87.1 63.8 79.2 1 63.9 62.6 80.4 73.0 73.4 1 79.0 76.9 73.7 71.6 67.6 1 72.1 71.8 66.0 62.9 56.5 1	N313 IALPHA SB59 TAMB 5 ADH219 PAMB 29.5600 RELHUM 1	.0 SQ CM (21.55 SQ IW) - MODEL 118.	
UNTRANSFORMED MODEL SOUND PRESSURE LEVE 59.0 DEG. F., 70 PERCENT R.H. ST SDENTIFICATION - MODEL BACKGROUND	ANGLES MEASURED		.0 87.3 86.9 86.7 90.6 94 .1 86.9 88.2 90.4 91.5 93 .4 86.9 88.2 90.9 91.8 94 .0 89.0 89.9 91.8 93.1 96	9 69.7 92.0 93.4 94.8 4 91.2 91.5 94.4 95.5 3 92.3 92.9 95.8 97.7 1 4 94.5 95.0 96.9 98.0 1	1 93.6 95.2 97.8 99.6 103 6 94.3 94.8 96.7 99.3 104 5 97.5 96.3 97.9 100.3 104 1 100.6 98.7 99.6 100.9 105	6 99.0 99.8 100.4 701.1 106 1 97.5 99.3 101.4 102.3 106 7 97.7 97.9 101.5 102.2 105 3 97.4 98.7 100.3 101.9 105	8 97,4 98,9 101.1 100.6 105 0 96.5 97.5 98.9 99.4 103 1 95.3 97.2 99.0 97.7 101 1 92.4 96.2 97.2 94.9 98	92.8 94.4 92.0 93 87.8 88.8 88.2 90 86.1 86.8 83.4 85 77.9 79.4 76.3 78 69.7 70.9 72.4 71 62.9 64.8 63.9 63	DATE 03-29-78 TAPE ATION C41 ANECH CH AERG.	12.2 M (
	9		83.1 83.1 85.4 85.3	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	91.0 91.0 91.0 97.4 98.	94.4 95.4 95. 95.2 95. 95.0 96.	93.7 95. 91.0 93. 89.1 91. 84.6 89.	25000 83.2 86.2 31500 81.3 82.3 40000 76.5 76.3 50000 69.6 71.5 83000 64.4 65.5 80000 58.4 57.1		V2210 V0010	

6HT TRANSFORMED MODEL SCUND PRESSURE F., 70 PERCENT R.H. STD. DAY, 38 IDENTIFICATION - FJ-400-AMCDL X012 ANGLES MEASURED FROM INLET, DEGREE 90. 100. 110. 120. 130. 140. 91.2 91.0 92.6 99.2 109.6 113.0 92.1 92.4 94.4 101.7 110.7 114.2 92.9 94.9 94.0 95.9 103.7 111.6 113.0 92.1 92.4 94.4 101.7 110.7 114.2 92.9 94.9 97.0 107.7 1112.1 114.2 92.9 94.9 97.1 101.8 106.4 112.8 113.7 92.9 99.2 102.5 100.7 114.3 114.6 92.9 99.2 102.6 103.7 110.2 114.3 114.6 102.9 102.2 106.0 110.3 113.1 113.9 103.3 103.4 105.3 110.2 113.3 111.1 102.9 102.2 106.0 110.3 113.1 113.9 103.3 103.4 105.9 109.0 112.1 109.6 104.1 102.0 105.7 107.9 114.6 112.9 105.9 90.4 102.0 103.9 106.2 103.4 101.9 100.9 103.7 107.9 109.6 107.9 103.3 103.4 105.9 109.0 112.1 109.6 100.9 103.7 106.1 110.2 113.3 111.1 101.9 100.9 103.7 107.9 109.6 107.9 103.3 103.4 105.9 109.0 112.1 109.6 101.9 100.9 103.7 107.9 109.6 107.9 103.3 103.4 105.9 108.6 107.9 113.6 112.9 115.8 120.4 124.9 125.9 FREE JET VELGCITY (FT/SEC) 390.0 FREE JET DIAMETER (IN) 48.0 PANEL	07/19/70	LEVELS 40.0 FT. ARC	02		150. 160. PWL	111.7 108.9 143.4	109.8 146.	109.7 150.2 110.2 150.5	6 150.3 0 149.5	3 108.9 149. 8 109.4 149.	.6 110.6 150.6 .2 111.1 151.0	110.6 151.3 109.7 151.3	0 109.7 151.0 4 108.5 150.3	. 6 107.3 149.8 .4 106.3 149.1	.2 105.7 148 1 105.2 148	6 99.1	# 96.3 146	86.1 144.	6 67.7 141	127.0 122.2 163.1	TURBULANCE CORRECTION - YES TURBULANCE CORRECTION - YES	SB59 TAMB 56.46 29.5600 RELHUM 13.30
		TRANSFORMED MODEL SOUND PRESSURE, 70 PERCENT R.H. STD. DAY, SB	FICATION - FJ	MEASURED FROM	. 90. 100. 110. 120. 130. 140.	66.4 66.7 66.6 90.6 54.3	90.0 90.6 90.2 91.0 96.7 106.0 1 90.0 91.2 91.0 92.6 99.2 109.6 1	91.7 92.1 92.4 94.4 101.7 110.7 11 93.9 93.8 94.0 95.9 103.7 111.6 11	93.5 94.9 94.6 97.6 105.7 112.4 115.3 11	97.2 97.7 97.5 100.7 107.1 112.1 114.2 11 97.6 98.8 99.1 101.8 108.4 112.8 113.7 11	97.0 97.9 99.2 102.6 109.1 114.3 114.6 1 98.6 99.4 100.5 103.5 110.0 114.3 114.9 1	101.7 101.4 101.6 105.3 110.5 114.5 115.1 1 103.4 102.9 102.2 106.0 110.3 115.1 113.9 1	103.3 104.4 103.6 106.4 110.9 114.6 112.5 1	102.7 103.3 103.4 105.9 109.0 112.1 109.6 1 102.9 104.1 102.0 105.7 107.4 109.6 107.9 1	101.5 101.9 100.9 103.7 105.9 108.6 105.6 1	100.7 100.2 97.1 99.3 102.0 101.8 99.6 1 97.3 97.4 94.5 94.8 98.7 99.9 97.4	91.8 91.8 90.4 91.3 94.8 96.0 94.1	92.4 42.4 80.7 79.8 86.9 84.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	66.9 67.8 65.9 66.5 70.4 69.7 66.4	112.9 113.6 112.9 115.8 \20.4 124.9 125.9 127	JET VELOCI FREE JET DI	NG. N313 IALPHA NG. ADH219 PAMB

METRYE BUITHING BOAT JISWYENOH.

																OR OF	RIG F) (1)	AI OF	L ? (PA QU	GE AL	IS YT							. 4	O FPS)
																													,		ET SPEED: (390.0
																					-						•		59.46	20.00	FREE-JET .87 M/SEC (
		Z	167.1	50.00 EA.00	68.5	9.79	67.4	167.5 68.6	69.1	169.4	69.4	. B. A.	67.79	67.3	166.7	66.3	65.6	64.2	63.6	62.8	59.1					101.1			TAMB	- 1	1.0
		160.	83.5	0 0	83.7	91.6			81.4	79.9	78.0		72.4	70.0	66.8	63.3	26.7	26.7		1	 .						94.9			ŀ	- FULL
10	80	150.	93.6		83.	91.2	80.5	86 .0	83.8	88.0	96.0	200	8.1	78.9	76.2	72.5	66.7	2.4	25.5							102.1	103.9	FT -9	3859 36 8600	KB. 30	SO EX
X01225	DEGREES	140.	7 16	0 6 0 6	93.0	93.4	92.4	9.00	92.	8.18	- 6	2 E	4.4	82.2	79.1	75.8	20.3	0 K	39.1	15.6							106.8	ACY SHIFT	IALPHA	D.	S12E (1400.00 S
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15.714	
07/18/79	
	NOISE
	BACKGROUND
	PRECTED FOR
•	LEVELS COR
	PRESSURE

	00	RIGINA F POO	L PAG R QUA	e is Lity						FREE-JET SPEED M/SEC (0. FPS)	, 1884.
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC I DENTIFICATION - MODEL BACKGROUND ANGLES MEASURED FROM INLET, DEGREES 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		66.0 90.6 90.3 90.9 91.0 92.6 95.2 87.9 100.3 107.7 111.6 116.0 114 86.9 99.2 90.2 90.7 91.5 92.6 95.2 96.1 86.0 102.2 109.7 113.9 119.6 115 89.2 90.4 91.7 91.5 92.6 95.0 96.3 99.0 103.7 113.8 116.9 121.3 115 89.7 91.6 93.5 93.6 94.2 96.8 97.7 100.1 105.6 115.6 119.2 122.4 115	91.3 93.6 94.4 94.7 96.0 98.1 99.0 102.4 107.6 117.0 120.3 123.0 117.4 155 96.1 94.4 96.2 96.9 97.3 99.4 100.3 103.9 109.9 117.5 121.1 124.0 118.4 156 100.4 100.7 100.2 99.5 98.6 101.0 107.9 105.0 110.5 117.3 120.7 123.9 118.0 156 97.5 101.1 103.1 102.9 102.0 103.1 103.2 106.9 111.1 116.7 121.5 124.5 117.4 156	98.1 97.9 99.2 100.2 100.8 102.7 103.8 107.0 112.2 116.8 121.7 323.5 116.2 156 98.5 100.0 100.0 99.5 99.4 101.2 103.8 107.5 112.3 117.1 120.3 120.5 112.8 155 99.1 99.6 100.7 100.4 100.8 102.1 104.3 107.4 112.2 117.7 119.2 118.4 111.2 154 101.4 101.4 100.7 100.7 100.5 103.1 104.5 108.5 112.4 116.8 118.2 117.7 109.9 153	100.7 101.5 102.3 100.8 100.6 102.7 104.1 108.6 111.6 116.4 116.8 116.3 107. 99.4 101.3 101.6 102.5 101.8 103.4 104.3 108.6 111.3 116.7 115.8 114.7 107. 97.9 100.3 101.3 102.2 102.5 104.6 104.8 108.0 111.1 115.9 114.7 113.7 106. 97.3 101.0 100.9 101.5 102.7 104.1 104.4 107.6 110.6 114.7 113.7 113.1 106.	95.1 99.2 101.5 101.6 102.4 104.8 103.7 107.0 109.6 113.6 112.3 111.5 105.6 151 92.2 96.9 99.0 100.7 102.0 103.3 102.8 105.7 107.4 111.5 110.2 109.8 103.7 350 85.4 95.3 97.9 99.8 101.4 103.1 101.6 104.0 105.8 110.7 108.4 108.2 102.6 150 84.3 92.4 94.2 96.3 100.2 101.8 99.0 101.4 103.2 107.0 105.6 105.5 99.7 149	89.0 51.0 92.5 97.0 98.1 95.9 96.6 100.4 103.4 101.5 101.3 97.5 146. 84.7 88.2 90.7 91.0 92.0 91.5 92.7 97.5 100.9 97.7 95.4 90.8 147. 79.2 83.4 85.2 89.2 90.4 86.3 88.2 92.6 96.5 93.6 90.6 86.7 147. 75.7 75.4 78.6 80.9 83.3 81.8 81.5 83.2 91.1 68.3 84.9 91.1 146.	57.0 67.0 64.1 69.8 66.5 71.1 68.9 70.7 79.0 60.8 77.5 73.8 68.6 1 109.9 111.6 112.5 112.8 113.3 115.1 115.5 116.9 122.8 128.5 131.0 133.1 127.0 1	TEST DATE 03-29-76 TAPE NG. N313 IALPHA SB59 TAMB 51.80 LGCATION C41 ANECH CH AERG, RDG. ADH212' PAMB 29.5500 RELHUM 45.00	ACGUSTIC RANGE 2.2 m (40.0 FT) ARC 139.0 SQ CM (21.55 SQ IN) - MODEL 0.	

										OI OF			IAL OR		AG UA	E	13						,			D FPS)	
																								YES YES		SPEED O.	
																	•							CORRECTION -	51,80	FREE-JET O. M/SEC (
			Ę		5.6	6.12		55.7	56.6	56,9	56.6	5.45 5.65	53.7	52.7	52.2	51.3	50.3	4.0	47.5	47.3		7.7	167.2		TAMB		
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	1-ZER-	E	120.		90.3	2.20	03.0	97.6	9 6	=	25.2	2.2	12.4	11.3	110.1	9.60	4, K	• •	97.5		83.2		122.8	Y (F)	N313 ADH212	8	
	•	JRED 1	110.		87.9	98.0	90.0	4.20	9 0	6.90	07.0	07.70	08.5	08.5	0.00	07.0	7.0	4.10	95.0	88.2	81.8	70.7	110.9	VELOCITY (FT, Jet diameter	RDG.	139.0	
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X01235	DEGREES	140. 150. 1	97.8	.6 100.4 .6 100.3	100.0	99.7 99.0 98	93.0	91.6	89 .6	96.6	9.78 0.09 0.00	78.9	75.6		46.1	27.5	A -							08.7 108.5	111.7 109.9 96	ICY SHIFT -9	ALPHA SB59 PAMB 29.5500	- (NI 08 00	
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DENTIFICATION	ANGLES MEASUR	90. 100. 1	.5 78.6 .3 80.1	81.4	94.1	84.8	65.6	885.7	85. 63.	4 85.2	.6 84.7 .1 83.8	3.4 82.7	0.081.3	73.7	. S 66.2	7 26.0			٠	•				80	9 104.4	AMETER RATIO , 8.	TAPE NO	JE FT) SL	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 58 2400.0 FT. SL

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ID PRESSURE LEVELS	- MODEL BACKGI	AE.	00. 110. 120			24.6	92.0 94.5 99.2 93.6 96.1 101.3	98.2	100.00	3 102.7	3 104.3 1	104.7	105.5	105.6	3 108.0	103.0	98.5	5 93 3 89 8	85.4 89	2 71.6 79	. 65.6 72 0 116.0 120	TAPE NG. N313 Rg. RDG. ADH2	139.		
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			ORIO OF	GIN P3	IAL OR	Pi QI	ige Jal	i is									- YES - YES		ET SPEED : (390.0 FPS)
	¥	143.7	146.7	151.2	3 3	51.3	151	151.4	150		148 148	147.9	145	149.1	140.9	163.7	REFRACTION CORRECTION TURBULANCE CORRECTION	TAMB 58.86 RELHUM 13.30	FREE-JET
MGDL X01240	145. 150. 160.	05.1 112.2 108.9	3.3 116.9 109.9 3.3 116.9 109.8	6.7 117.9 109.8	.5 116.8 110	6 110	5 116.9 113	2 114.3 111	1.5 110.9 10	9.9 109.9 107 7.6 107.6 106	107.3 1	.9 100.9 1 .6 97.6	. 1 93.3 .8 88.8	82.7 83.4 85.7 77.4 75.1 78.7	67.6 65.3 60.9	7.2 127.8 122.9	390.00 REFRA 48.00 TURBU	1ALPHA SB59 PAMB 29.5600	55 SQ IN) - MODEL
FJ-400-AMODL	120. 130.	94.8 101.7.10	97.0 106.8 10 99.7 110.1 11	104.5 11	106.8 11	107.9 113.1 11	114		110.4 114	109.0 112.1 1	105.6 108.9 1 104.6 106.2 1	1 101.7	.8 95.7 .2 89.6	86.9 84.1 8 80.5 79.6 7	70.7 69.8 · 6	120.8 125.5 127	(FT/SEC) ETER (IN)	N313 IAL ADH221 F	SIZE .0 SQ CM (21.55
NTIFICATION -	, S	10	.1 90.2 91.6 .4 91.2 92.6	9 82.0	6 95 6 95	7 98.01	7 99.2 1	9 101.3 104	4 102.8 105 2 103.5 106	3 103.1	9 100.9 103 0 99.6 101	5 97.4 94.5	5 90.4 5 85.8	a w	3 66	3.4 112.8 115.6	FREE JET VELGCITY FREE JET DIAM	TAPE NO. AERO. RDG.	FT) ARC 139
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	40. 50. 60.	91.5	.8 91.5 90.2 .8 91.3 91.2	93.2 94.	95.1 95.	100.2 100.	97.7 98.	101.2 100.	101.6 102.	101.6 102.	101.9 103. 100.2 101.	98.0 99.	90.8 91. 85.8 88.	73.9 82.	64.5 64.	.3 112.4 112.9	MODEL/FULL SIZE SCALE INPUT 1.000 CALC. 1	TEST DATE LOCATION	TEST POINT 0124A 12

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	FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - FJ-ZER-AMOUL X01250	ANGLES MEASURED FROM INLET, DEGREES	FREO 40. 50. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160. PML		128	160 200	85.5 90.8 90.1 91.1 90.7 92.8 95.2 96.1 100.6 107.9 111.6 117.7 114.4 1	87.4 89.7 90.2 91.5 93.3 95.4 95.6 95.0 102.2 109.6 113.8 119.6 115.0 1 88.9 90.4 91.7 91.8 93.3 95.2 98.3 96.5 104.2 114.3 116.종 경기.1 115.6 1	90.2 92.0 93.3 93.6 94.4 96.6 97.7 100.1 106.3 116.9 119.0 121.9 115.8 1	95.9 94.4 96.2 97.2 97.3 99.4 101.0 104.2 110.9 120.5 121.9 123.3 117.2 1	100.7 101.0 101.2 99.8 99.4 101.0 102.4 105.8 111.7 120.6 121.9 123.4 117.0 157.	97.5 102.6 103.8 103.4 103.0 104.1 104.5 107.4 112.1 120.6 123.3 123.2 115.9 1 or s. dr. o. 100 4 161 0 101 3 102 0 104 6 108 0 112 0 120 5 120 7 122 0 114 0 1	100.5 101.2 101.0 100.0 100.4 101.7 104.1 108.0 113.5 120.8 120.8 118.8 111.5 155	100, 1 101, 3 102, 4 101, 6 101, 5 103, 3 105, 0 108, 6 112, 6 120, 9 119, 9 117, 6 109, 9 155	101.3 101.6 101.4 102.1 101.7 103.3 103.0 108.4 113.4 118.7 116.1 116.1 106.1 104.1 104.1 104.1 104.1 104.1 104.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 104.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1	98.5 100.1 101.1 102.3 102.7 103.6 105.2 109.1 112.6 118.2 115.6 113.6 106.0 153	97.0 100.6 100.7 100.8 101.9 103.5 104.3 107.9 110.7 115.5 1/3.3 111.0 104.5 1	94.9 99.2 101.0 100.9 101.7 103.8 103.5 107.6 109.3 113.0 111.8 110.4 103.5 03.5 03.5 03.5 03.5 03.5 03.5 03.5	90.1 95.5 97.6 99.0 101.6 102.3 100.5 104.2 105.9 111.8 107.9 106.9 100.3	84.9 92.5 94.1 96.4 99.8 100.9 98.6 101.8 103.8 109.6 105.5 104.1 98.3 183.8 89.9 92.2 83.4 97.3 98.6 96.5 97.4 102.3 106.2 102.7 101.1 97.3 1	82.6 87.0 91.0 92.8 93.1 94.3 94.0 95.1 100.3 105.7 99.4 96.2 92.3 78.7 83.2 82.9 88.8 88.8 88.8 88.8 88.8 88.8 88	73.1 80.9 80.6 84.2 85.7 87.4 85.4 86.1 93.4 98.2 95.1 88.4 84.2 151.	68.5 78.8 76.2 79.7 78.3 81.1 80.7 81.1 90.4 93.6 88.2 83.4 79.8 152. 63.8 76.1 71.6 76.1 73.2 77.2 74.2 77.4 87.1 88.8 83.9 78.4 73.7 155.	 MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION COR Input 1.000 Calc. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE COR	000-00-00-00-00-00-00-00-00-00-00-00-00	SOO RELHUM	MODEL TEST POINT ACGUSTIC RANGE SIZE SIZE OTOOA 0125A 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.55 SQ EN) - MODEL 0.	197	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

IDENTIFICATION - FJ-ZER-AMODL X01255

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IDENTIFICATION - FJ-400	ANGLES MEASURED FROM	90. 100. 110. 123		8.00 B.00 B.00 B.00 B.00 B.00 B.00 B.00		.9 95.7 99.2 107. 6 97.2 100.2 107. 7 99.4 102.1 109. 1 100.9 103.1 109.	.2 100.5 104.2 109. .9 101.3 105.0 111. .4 102.5 106.1 111. .6 103.0 106.5 111.	.7 103.8 107.1 110. .0 103.2 106.5 116. .6 102.4 105.6 109. .8 101.8 105.3 106.	1 100.2 103.2 105. 2 98.5 101.4 103. 5 96.3 99.0 102. 4 93.9 94.8 98.	90.2 90.2 95 85.7 85.7 90 80.4 80.0 86 74.5 73.4 80 65.5 66.3 70	113.5 113.1 116.3 121.2 127.4 FREE JET VELOCITY (FT/SEC) FREE JET DIAMETER (IN)	TAPE NO. N313 Aeko. RDO. Adh222	RANGE 40.0 FT) ARC 139.0 SQ	
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 56 40.0 FT. ARC

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IDENTIFICATION - FJ-400-AMODE	ANGLES MEASURED FROM INLET,	40. 50. 60. 70, 60. 80. 100. 110. 120.	69.5 71.5 72.5 72.2 72.9 74.2 73.4 74.6 81.1 91	71.4 72.5 73.4 72.5 74.1 75.1 75.2 76.5 64.4 93	72.0 73,6 75.7 74.5 76.5 76.5 76.5 78.8 86.1	73.2 75.2 77.0 76.0 77.1 78.4 75.0 51.1 55.2	76.2 75.4 77.7 76.0 78.1 60.0 78.4 62.0 68.0	77 A A17 A3 1 A2 1 B1 6 A3 2 A2 B B4 6 B0.6	79.0 79.6 81.3 81.5 79.9 81.1 62.2 85.6 90.4	80.7 81.0 81.1 79.7 81.9 82.6 82.8 86.1 92.0	76.6 62.0 63.8 83.5 84.0 63.8 63.7 86.8 91.1	79.4 81.0 82.6 83.8 82.6 83.7 83.9 86.9 90.8	75.0 79.7 52.1 51.9 52.7 54.0 54.0 57.3 30.0	77.0 78.0 01.2 01.8 01.0 04.0 00.0 00.4 08.4 14.7 14.0 14.0 00.4 08.4	76.5 79.3 An.4 Al., 82.3 A3.1 Bl.9 84.8 85.3	73.8 77.1 60.2 80.5 61.1 81.2 80.0 82.4 83.1	69.1 73.9 76.7 76.6 80.9 81.1 78.2 80.3 81.5	68.0 72.9 75.7 77.2 78.6 78.9 75.5 77.3 78.6	56.6 66.9 69.6 71.9 74.6 74.5 71.6 71.5 73.7 co. co. co. co. co. co. co. co. co. co.	25.6 42.3 51.5 55.8 59.9 59.3 55.4 53.7 55.5	15,6 25,9 35,7 40,3 41,9 42.6 40.1 37,3 39.3	6.1 14.5 14,3 16.3 16.0 11.4 11.4	, , , , , , , , , , , , , , , , , , , ,			000	00	00	00	89.2 91.1 92.3 92.9 93.5 94.4 84.0 96.7 101.1	94.9 97.9 100.4 101.0 102.3 102.9 101.2 103.5 106.9 94.9 98.4 101.1 101.6 103.7 103.9 101.2 104.0 107.6	DIAMETER MAIIS 6.061 FREG	TEST DATE 03-29-78 TAPE NG. N313 LOCATION C41 ANECH CH AERG, RDG. ADH222	OA 01264 731.5 H (2406.0 FT) SL 9032.2 SG CH	201	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
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ORIGINAL PAGE IS OF POOR QUALITY

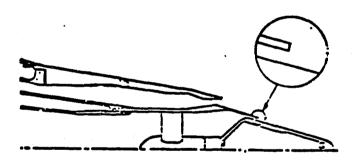
6.1.3 Measured Acoustic Data for Model 2

 $R_r^0 = 0.853$ C-D outer nozzle

 $R_r^i = 0.933$ Conic inner nozzle

 $A^{i}/A^{o} = 0.191$

without struts in outer flow



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40.0 FI. ARC	X02010 000000		150. 160				- *	17.										110.4 105.0		- 1		91.1 87.			132.8 127.	SB59 29.4200	- (NI		
DAY, SB 4	FJ-ZER-FMDDL 000000000000	, DEGREES	140.				112.3	116.9	119.0	121.1	121.4	122.5	121.8	119.6	117.0	115.9	113.4	111.8	108.3	106.0	99.5	96.5 5	86.5		4 131.4 1	IALPHA	l is		
H. SIU. DAY	FJ-ZE	FROM INLET	120. 130				101	.7 113	0.115	175	.2 117	6 117	2 118	8 119	7 118	. 1 118	12.1 % 15.0 11.9 115.0	10.8 114.5		- c	, ID	4.0	-	6	123.6 129.	N312 ADH192	SO CM (ş.	
O PERCENT R.H.	- MODEL BACKGROUND	MEASURED F	110.				98.9	98.7	9	104.2	105.3	106.6	107.5	108.4	109.1	110.6	110.7	109.1	105.7	102.6	95.9	91.3	80.0	75.0	4 120.1 1	. NO 206.	138	4	
., 70 PER	ICATION	ANGLES MI	90. 100															106.6 105.5							17.4 117.	TAPE AERO, F		J	
-	IDENTIFICA		80.				91.5	93.6	93.9	97.5	99.4	103.4	102.6	107.0	107.7	104.7	105.0	104.9	103.8	101.7	93.4	92.2	76.3	70.1	116.3 1	23-78 ANECH CH	್ಷ ಲ್ಡ್		
59.0 DEG.			60. 70.				- 1	- 10	.0 93.	4 96	5 99	103	5 t-	6 107	4 106	3 104	5 103	3.3 103.6	5.7. 5.05 5.05	1 97	0.92	4 87	2 75	7.7 70	6.0 115.5	03-	2		
			50.				6	4 0	8	- œ	, in	ω	NF	-	-0	-	4	101.7 103	o 4	E) 6 0	<u>ب</u>	حي أب	5.9 6	115.6 116	TEST DATE	TEST POINT		
			40		. E C		86.5	8 8	91.0	98.9	101.2	90.8	108.0	107.3	105.6	103.3	101.6	98.4	93.3	88.0	84.4	79.7	66.6	61.0	115.6	:	DEL TEST		

02/15/80 9.180		ORIGI OF P	NAL PAGE IS OOR QUALITY		CORRECTION - YES CORRECTION - YES B 54.50 M 61.80 FREE-JET SPEED O. M/SEC (O. FPS)	
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-ZER-FMODL X02010	ANGLES MEASURED FROM INLET, DEGREES FREQ 50 63 80	86.5 92.3 91.1 90.9 91.5 94.1 96.5 98.9 100.8 107.4 112.3 118.5 116.4 87.9 90.4 90.7 91.5 93.8 95.3 96.3 98.7 102.9 110.0 114.1 119.8 116.7 82.7 91.9 92.5 91.5 93.6 95.7 97.1 98.7 103.9 110.0 114.1 119.8 116.7 91.0 92.8 94.0 93.3 93.9 97.0 98.2 100.1 106.0 115.4 119.0 122.7 117.6 92.2 94.1 95.4 94.4 96.5 98.9 99.8 102.4 108.1 116.5 120.1 123.5 118.4 96.3 94.6 96.4 96.9 97.5 99.6 100.8 104.2 109.7 117.2 121.1 124.0 118.2 101.2 101.5 101.5 99.5 99.4 101.2 102.6 105.3 111.2 117.3 121.4 123.9 117.8 100.8 102.6 103.1 103.4 104.1 104.4 106.6 111.6 117.6 122.5 123.4 116.4	108. 6 104. 2 102. 9 101. 2 101. 6 103. 0 104. 3 107. 5 113. 2 118. 6 121. 8 119. 0 107. 3 107. 7 106. 7 104. 5 102. 6 103. 0 104. 3 107. 5 113. 2 118. 6 121. 8 119. 0 107. 3 108. 4 108. 6 107. 6 108. 1 106. 7 109. 1 113. 6 119. 2 118. 1 116. 9 103. 9 103. 9 105. 4 104. 7 105. 8 107. 6 108. 0 109. 4 112. 7 118. 0 117. 0 115. 4 103. 3 104. 1 104. 3 104. 7 106. 5 108. 4 110. 6 112. 1 118. 2 115. 9 114. 1 101. 6 103. 2 104. 5 103. 7 105. 0 106. 8 107. 0 110. 7 112. 1 116. 6 114. 4 112. 7 103. 1 104. 0 103. 8 104. 6 106. 3 106. 1 109. 4 111. 9 115. 0 113. 3 114. 7 106. 7 103. 1 104. 0 103. 8 104. 6 106. 3 106. 1 109. 4 111. 9 115. 0 113. 3 114. 7 104. 7 105. 7 103. 1 104. 0 103. 8 104. 6 106. 3 106. 1 109. 4 111. 9 115. 0 113. 3 114. 7 104. 7 105. 7 103. 1 104. 0 103. 8 104. 6 106. 3 106. 1 109. 4 111. 9 115. 0 113. 3 114. 7 104. 7 105. 105. 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5 105. 5	3 103.6 104.9 100.6 103.3 103.1 110.8 114.3 111.8 110.7 110.3 103.3 103.2 104.2 105.4 104.3 107.2 108.6 112.4 109.2 108.8 103.3 100.2 103.8 105.2 103.4 105.2 102.7 105.1 101.1 111.3 108.3 107.1 101.2 103.9 99.1 103.9 99.1 103.9 99.2 100.0 97.4 98.3 102.6 104.9 102.3 100.5 96.9 103.9 93.4 94.4 93.9 95.9 99.5 104.1 99.5 96.0 91.4 87.5 92.2 92.6 89.0 91.3 95.4 100.3 96.5 91.1 87.8 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) O. REFRACTION CORRES INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRES FEST DATE 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 54. LOCATION C41 ANECH CH AERO. RDG. ADH192 PAMB 29.4200 RELHUM 61. MODEL TEST POINT ACDUSTIC RANGE SIZE SIZE 0200 C201 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL O.	

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DUND PRESSURE LEVELS 2400.0 FT. SL	X02015	DEGREES	140, 150, 160, PWL	58.3 90.2	99.1 90.7	91,0	100.0 90.4	99.3 6.79	94.1 83.1	92.7 80.9	88.7 76.5	86.7 75.1	83.0 71.2	86.2 80.8 68.5 170.3 82.6 77.9 64.5 169.2	74.5 59.4	68.6 52.3	46 x 21 x		168	168.0 170.0						109.1 108.3 98.8 185.8 112.2 108.9 98.2	108.9	SHIFT -9	IALPHA 5859 TAMB 54.50 PAMB 29.4200 RELHUM 61.80	SO IM) - FULL O.		
SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS PERCENT R.H. STD. DAY, SB 2400.0 FT. SL	ICATION - FJ-ZER-FMODL	ANGLES WEASURED FROM IMLET, DE	100. 110. 120. 130. 1	80.8 85.0 94.0	82.1 87.3 95.6	86.1 90.8 97.3	87.1 92.3 97.3	88.3 92.5 97.5	85.8 93.8 97.9	89.4 93.1 98.7	89.9 92.2 96.3	90.7 91.3 96.0	89.1 90.6 92.2	85.6 88.6 89.3 91.3 8 84.2 86.4 86.7 88.6 8	84.6 84.8 86.9	80.9 81.9 82.8	50 4 70 6 71 4	59.4 60.3 60.0	42.9 44.6 41.6	18.0 19.5						98.3 100.5 103.5 108.3 10 105.5 107.6 109.6 113.5 11	107.6 110.1 114.2	TID 8.070 FREQUENCY SHIFT	TAPE NO. N312 Ero. Rog. Adh192	\$12E SL 9032.2 SQ CM (1400.00		
FLIGHT TRANSFORMED, SC 59.0 DEG. F., 70 F	1	ANGLES	60. 70. 80. 90.	73.5 76.0 78.3	75.3 76.3 79.6	76.4 78.9 81.4	81.4 81.6 83.6	24.28 85.6 86.3 20.2 20.2 20.3	85.8 84.4 84.9	88.7 88.5 87.0	85,1 86,7 88.7	84.5 85.3 87.3	83.5 84.9 86.7	61 ◀	79.1 83.4 85.2	76.1 80.8 82.4	70.8 76.9 78.1	55.6 62.0 62.9	38.5 44.0 A6.2	13.3 17.8 21.0						96.1 97.2 98.4 102.8 105.3 106.8	1 102.8 106.6 107.9	DIAMETER RAI	03-23-78 C41 ANECH CH A	ACOUSTIC RANGE 731.5 M (2400.0 FT) 9		Semantine and the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the semantine of the seman
			40, 50,	68.4 72.2	69.6 73.0	70.9 74.3	79.6 81.5	79.0 82.4	86.6 87.1	84.6 87.1	80.1 82.1	79,0 81,9	75.5 80.3	1250 72.8 78.5	65.8 73.0	58.7 69.2	53.5 64.0	31 0 42 2	5,8 23,5		12500 16000	25000 25000	31500 40000	50000	80000	92.8 94.2 97.0 99.8	.2 59.8		TEST DATE LOCATION	MODEL TEST POINT 0200 0201	205	1

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02/15/80 9						47.7, 49.2 51.1	52.1	152.9 153.4 153.2	54.2	6. 40. 00. 00. 00. 00. 00. 00. 00. 00. 00	52.4 52.2	51.5 50.8	50.6 19.4 19.3	18.5	17.8 17.6	46.6 46.3 48.1		TAMB 46.94 RELHUM 83.10	FREE-JET SPEED 30.22 M/SEC (296.0	
CORRECTED FOR BACKGROUND NOISE		, DEGREES	. 140. 150. 160.			109.5 116.2 113.6 111.1 117.8 114.5 114 7 119 6 113.8	116.5 120.2 112.6	118.1 120.5 110.7 118.9 120.5 108.9 119.2 119.1 107.0	121.0 118.7 105.7	120.8 117.2 105.3 119.9 115.4 104.1 118.6 113.8 102.6	116.4 111.4 100.9	114.1 108.7 99.1 112.2 106.9 97.9	111.0 106.7 97.1 108.5 104.7 95.6 106.5 103.1 94.8	104.2 100.4 92.6	97.9 92.3 86.2 93.9 86.5 81.5	89.1 81.2 75.6 81.8 75.0 70.1 77.5 65.9 62.3	130.0 129.6 121.4	IALPHA SB59 PAMB 29.4300 REI	SQ IN) - MOD	٠
EVELS	- MODEL BACKGROUND	MEASURED FROM INLET,	100. 110. 120. 130			95.6 97.6 95.0 99.2	96.8 101.8	96.0 98.9 104.4 113.7 97.5 100.9 106.4 114.7 99.4 102.0 108.7 115.0	104.1 109.1	105.0 110.7 105.4 110.3 106.9 111.6	107.7 111.1	109.4 111.5 107.9 110.8	107.4 105.1	100.3 104.0	5.2 96.2 101.2 102.4 1.7 93.2 98.5 101.3 5.5 88.0 94.0 96.8	75.5 85.6 69.0 79.7	118.0 121.9	TAPE NO. N312 Ro. RDG. ADH199	138	•
MODEL S	DENTIFIC	ANGLES	70. 80. 90. 10			.9 88.0 90.1 .7 90.1 92.2	8 91.4 93.5	91.2 93.3 94.6 96 93.2 93.8 96.1 97 94.5 95.6 97.5 99	.8 98.2 99.6 .7 98.5 100.7	.3 101.8 100.2 .4 105.7 104.3 1 106.2 107.8	3 102.1 105.6	3 102.6 104.0	.7 102.1 104.2 .3 101.3 102.7	9 99.6 101.1	.6 96.8 97.9 .7 91.7 92.4 .7 89.2 90.6	. 1 81.5 83.1 .9 73.4 74.9 .6 66 7 69 5	0 113.9 115.3	03-23-78 TAI	DUSTIC RANGE W (40.0 FT)	
UNTRANSFORMED			40. 50. 60.			.0 87.1 87.3 .9 86.6 87.4	. 6 87.9 88.7 .4 88.3 90.3	87.9 89.9 91.4 9 91.6 90.6 92.4 9 94.2 93.7 95.7 9	.5 98.0 98.1 .8 103.9 102.2	.5 105.7 106.2 .1 105.1 106.3	3 100.9 101.9	.3 100.9 101.9 .4 100.8 101.4	.6 100.5 101.4 .6 97.2 98.8	0 93.2 94.0	.3 90.1 91.6 .7 86.0 89.2 .7 80.9 84.5	.4 70.8 70.7	.8 113.0 113.6	TEST DATE O	2	
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			. 160. P				3 112.3 346	113.0	9 113.8 150	9 114.7 153	114.6	9 113.4 154	4 113.0 1	111.8	108.5	107.6	106.6	۲.	4 6	. 10	7 03 8 440		5 83.7 148. 8 77.4 149.	0 67.6 147	4 124.3 166	REFRACTION TURBULANCE	5859 TAMB 29.4300 RELHUM) - MODEL	
	X02020	DEGREES	140. 150.				107.3 114.3	.5 117.	4'0	118.3 121.9	.0 121	120.2 121.4	_	119.5 117.5 118.3 116.0	3 113		ri T	110.2 108.6	108.8 107.6	. ru		. .	88.1 83.5 85.3 75.8	5.5	129.6 130.4	296.00	IALPHA SB5	SIZE 21.49 SQ IN)	
	FJ-300-FM0DL		120. 130.				96.5 103.4	-	-	105.7 113.8	1-	108.3 114.3	115		116	12.5 115.7	115	1 2	108.8 111.8	106	102.8 105.1	7 4	92.1 92.4	.8 80	122.3 127.1	VELOCITY (FT/SEC) JET DIAMETER (IN)	N312 1 ADH199	SQ CM (
TENCHAL MAIN	FICATION - FJ-	ES MEASURED FROM INLET	110.				92.9	92.8	83.8	95.4	7'66	100.7	103.1	103.7	105.9	109.0	109.6	108.6	105.8	101.1	97.3	5 60 5 60 5 60 5 60	82.5	69.7	117.8		TAPE NO. N.	138.7	
	IDENTIFICA	ANGLES	90. 100.					1.		93.7 94.1	ı	97.8 98.8 100.0 100.2		100.9 101.3		- 1			105.7 104.0	104.1	100.9 97	93.6 93.5	86.1	S.	117.1 116.1	FREE JET	CH AER	RANGE 40.0 FT) ARC	
			70. 80.					91	91.	ن د	95.		1 99	106.5 103.2	2.08	104 6 105 1	9 104	w 0	r.	4.0	ဖ	94.9 95.3 90.8 93.9	9 -	9 70.	116.2 116.5	LE FACTOR 1.000	03-23-78 C41 ANECH	ACOUSTIC .2 M (
			. 60.				6	90.7	91.0	92.3	95.0	ტ. დ ტ. დ	100.7	105.6	109.0	105.7	105.1	106.0	105.3	102.2	97.7	4 0	·- o	68.6	.2 117.0 1	LL SIZE SCALE 1.000 CALC. 1	TEST DATE LOCATION	2	
			40. 50					88.4 91.	90.4 91.	92.1 92.	93.4 94.	96.8 95.	102.5 101.	111.1 108.3	107.6 108.	107.5 107.	105.7 105.	104.5 105. 105.4 105.	103.3 104.	<u> </u>	6	93	83.8 83.	69	117.6 117.	MODEL/FULL INPUT 1.		TEST POINT 0202	
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02/15/80 9.180								1						01 01	RIG F F	IN O	AL OF	. •	PAG QUA	iÉ I	3							0	FREE-JET SPEED 2 M/SEC (296.0 FPS)	optile.
SOUND PRESSURE LEVELS	FT. SL			. 160. PWI	16	87.2	87.7	85.8 172	85.7 172	.0 84.8 172.4 .6 83.0 172.2	80.6		74.9	70.9	68.2 65.6	60.8	50.4 20.8	7		167.6 165.4					.0 95.7 184.2	1	6-	59 TAMB 46.94 .4300 RELHUM 83.10	- FULL 90.22	
OLATED SOUND PRE	DAY, SB 2400.0		NLET, DEGREES	130. 140. 150	93.1 95	95.5 97	96.9 98	98.6 97	98.9 96	98.4 97.1	95.6	9 6	6.0	87.3 81	84.6 79 82.3 76	79.4 72	75.2 67 69 4 58	60.0 44	56.4 45.8 25. 37.8 21.6	10.6			•		105.9 107.3 106.	111.5 106	FREQUENCY SHIFT	IALPHA SB PAMB 29	SIZE M (1400.00 SQ IN)	£.
LED, AND EXTRAP	ERCENT R.H. STD. DAY,		MEASURED FROM INLET,	00. 110. 120.	75.8	77.4	79.6	82.0	84.4		85.3	87.4	89.1	88.3	85.0	83.1	79.4	67.4	58.2 56.9 60.2 43.0 39.7 44.9	14.4 19					6.9 98.0 102.0	105.4 109.2	10 8.070 F	TAPE NO. N312 RO. RDG. ADH199	9032.2 SQ CM	
SC.	O DEG. F., 70 PE	U	ANGLES	80. 90. 10	4.1 75.1	5.2 76.2	.0 77.4	9 2 80 2	1.5 82.3	1.9 83.3	8.7 86.9	9.5 90.3 6.0 88.1	5.3 86.8	6.3 37.2	5.8 87.5 4.8 85.8	4.7 85.2	2.7 83.5	0.1 70.6	63.0 63.9 58 45.2 46.6 43	8.5 20.6					97.2 97.9 96	1 107.9 10	DIAMETER RATI	03-23-78 T C41 ANECH CH AER	ACOUSTIC RANGE 5 M (2400.0 FT) SL	
FLIGHT T	f			5. 60. 70.	72.3 72.	73.5 74.	75.1 75.	1 77 0 78	3 79.7 80.	7 86.2 87.	8 89.6 88.	8 88.9 87. 8 85.3 85.	4 85.1 84.	7 84.7 85.	2 84.0 84. 2 83.4 83.	7 79.9 82.	9 78.5 79.	0 65.5 68.	9 54.8 58.8	9.4 15.					4 96.5 96.	7 104.2		TEST DATE 03-23 LOCATION C41 A	731.	
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ISAS I SONO CHINO	EG. F.,	IDENTIFICATION - MODEL FU-400-FMODL X02030 BACKGROUND FUB400-FMODL X05220	ANGLES MEASURED FROM INLET, DEGREES	40. 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160.					3 86.5 86.5 87.0 87.4 89.5 91.9 94.6 97.1 103.6 1	3 86.7 88.2 86.9 88.8 91.4 92.3 94.7 99.4 109.5 113.7 118.8 118.0 15.0	.3 89.3 90.9 90.1 93.0 94.1 95.5 98.2 103.6 113.4 117.3 118.5 106.7 151	3 90.1 91.6 92.2 92.7 95.1 97.0 99.9 105.9 114.2 1	. 4 93.0 94.0 93.5 94.1 97.0 98.1 101.3 107.5 115.0 119.0 114.4 102.9 152.	6 105.2 104.2 101.5 98.5 99.7 101.0 304.2 109.2 115.0 120.0 114.5 103.5 153	.3 104.6 106.3 106.4 106.7 104.6 102.7 105.4 109.8 117.2 119.1 114.4	. 1 102.1 103.1 103.9 105.7 107.8 106.2 107.1 111.1 116.7 117.6 113.3 102.8 1 6 100 9 102.4 101.4 102.7 105.1 107.0 107.9 110.9 115.5 115.4 111.4 100.4 1	2 100.8 101.8 101.5 101.9 103.7 106.4 109.5 111.0 116.2 114.3 109.5 100.0 1	.6 100.4 101.9 101.4 101.9 104.3 105.0 108.7 112.0 115.0 113.1 108.4 99.4 1 .4 100.8 100.9 101.3 102.6 103.5 104.8 108.1 111.6 113.9 112.2 107.1 98.4 1	.1 99.5 101.4 101.2 102.3 104.0 103.6 107.4 110.2 113.1 110.2 106.7 97.1 1	9 95.4 98.0 98.9 101.5 102.8 100.7 103.4 106.3 109.7 106.0 102.9 94.8 149	.5 93.0 94.6 96.2 99.9 101.2 96.9 101.1 103.9 105.9 105.9 105.4 91.1 147 .1 89.6 91.6 92.4 96.8 97.9 95.5 95.9 101.2 101.5 99.9 96.4 91.1 147	5 85.3 89.2 90.9 91.7 92.2 92.2 92.9 97.5 100.8 96.5 91.6	.2 80.9 84.3 86.5 90.0 90.3 87.0 88.8 93.3 95.9 91.7 80.1 62.3 347 .2 76.1 77.0 79.6 81.7 83.4 81.9 82.2 88.3 90.6 86.4 81.0 75.4 145	.9 71.1 70.9 72.9 73.4 74.4 76.1 76.0 84 .8 63.9 65.0 68.1 66.4 69.2 67.9 70.0 78	5 113.3 113.9 113.5 114.0 115.1 115.3 117.9 121.6 126.9 129.0 127.6 119.6 164.7	TEST DATE 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 47.30 LOCATION C41 ANECH CH AERD, RDG, ADH198 PAMB 29.4300 RELHUM 81.60	TEST POINT ACOUSTIC RANGE SIZE SIZE SOON 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL 120.70 M/SEC (The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	R.H. STD. DAY, SB - FJ-400-FMODL X02	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.					2 90.9 90.0 88.8 88.5 90.0 91.0 95.0 106.6 100.0 10.5 111.2 147.	1.9 92.4 91.2 90.0 90.4 91.7 91.4 92.5 99.6 110.2 113.7 117.7 112.0 1 2.8 92.2 92.6 90.0 92.2 92.8 93.7 94.9 102.3 111.8 115.9 119.1 111.8 1	7 94.0 94.5 92.3 94.9 94.5 94.8 96.5 104.7 112.9 117.5 118.9 112.6 152	95.7 95.8 93.6 94.7 95.6 96.3 98.1 106.6 114.1 118.0 118.0 113.7 152 96.1 96.4 95.5 95.3 97.6 97.5 99.5 107.7 114.1 118.7 117.6 113.4 152	.1 97.9 98.0 96.5 98.9 99.3 99.1 101.1 108.6 114.2 119.9 117.9 114.3 153 5 107.3 102.8 100.2 100.6 100.7 100.7 102.7 109.9 115.4 119.4 118.1 114.7 153	.9 111.3 109.0 104.8 104.2 101.2 100.8 103.1 109.8 117.0 119.7 118.4 114.9 155	.5 112.2 111.0 108.6 109.4 106.1 103.0 104.5 111.6 117.1 116.6 116.0 115.0 155. .3 110.0 111.0 110.0 108.9 109.8 106.9 106.7 111.9 116.2 116.8 116.1 112.5 154	1 107.5 108.1 106.0 105.9 106.7 107.9 109.7 113.0 115.6 114.2 112.7 111.0 153	.6 107.4 107.6 106.4 106.0 107.3 106.5 108.8 112.7 114.6 113.4 111.5 110.1 152.8 106.9 107.5 106.1 106.6 106.5 106.2 108.2 111.5 114.0 111.6 111.3 109.1 152	.4 107.1 106.4 105.7 106.4 107.0 105.1 107.5 109.5 111.4 110.0 109.8 108.7 108.0 151. .9 105.6 106.6 105.5 105.4 105.5 103.7 105.6 108.6 111.7 108.5 108.7 108.0 151	.4 102.5 104.0 104.3 106.1 105.8 102.4 103.7 106.8 109.6 106.9 107.0 .5 102.8 103.9 103.3 104.4 104.2 100.8 101.7 105.9 106.0 105.0 104.7 20.0 20.0 20.4 100.0 27.8 27.3 104.5 104.3 100.5 28.9	.3 95.6 96.2 95.4 95.8 95.2 93.8 93.1 98.7 100.9 97.4 95.1 98.8 149	.0 94.3 95.3 69.1 69.2 95.1 95.4 95.4 95.2 15.0 15.1 15.1 15.1 15.1 15.1 15.1 15.1	7 71.2 70.1 71.1 70.5 72.2 69.3 70.0 76.0 77.0 73.5 66	119.5 119.3 118.9 117.5 117.5 116.3 117.7 122.3 126.9 129.0 129.0 125.1 166.0	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 396.00 REFRACTION CORRECTION - INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION -	TEST DATE 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 47.30 LOCATION C41 ANECH CH AERD, RDG, ADH198 PAMB 29.4300 RELHUM 81.60	TEST POINT ACOUSTIC RANGE SIZE SIZE FRFE-JET 0203 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL 120.70 K/SEC (
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:			1		170.2	1			- 1			1		169.8				- 1	166.7	166.3	164.1							184.0			TAMB 47.	
- -			ĺ			(i			1		80.3 72.2 77.8 69.2	1			- (1.07										106.3 98.3	6- 1:	SB59 29.4300	IN) - FULL
	T, DEGREES	140.	92.4	94.6	96.1 	97.2	98.2	97.3	4. 70	93.5	91.6	88.6	86.4	88.2 84.4	79.4	75.7	67.8	58.5	, -C					***************************************				106.7	9 -	FREQUENCY SHIFT	IALPHA	S12E (1400.00 S0
FJ-400-FM0DL	MEASURED FROM INLET,	120.	80.9	83.6	86.0	88.8	89.5	90.7	4.00	91.8	91.5	91.6	90.2	87.9 86.6	84.5	82.7	76.4	69.8	40.4	17.3								101.9 105.7	109.0		N312 ADH198	.2 SO CM
4	100		1			1								85.2 87.1				- 1										97.0	04.5 105.2	T10 8.070	TAPE NO. ERO. RDG.	SL 9032
IDENI IF	ANGLE	. 90	9 74.2	6 75.4	3 77.0	80.0	1 81.6	6 82.8	83.1	91.2	3 88.7	87.9	9 86.9	5 87.3	8 85.7	6 83.6	2 79.0	5 70.4	46.7	20.1								.2 98.3	1 108.0	AMETER RA	¥ #5	1C RANGE 2400.0 FT)
		70. 80	0	ó	ن س	٦	7	80	ءأد	- 60	φ.	7/17	89	85.3 86.	- 0	ω	80	6	Óπ	ຸເກ								7	9 8	10	03-23-78 C41 ANECH	ACOUST 1.5 M (
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	4				ORIG OF F	INAL OOR	PAGE I	S Y				FPS)		
				:							54.50 61.80	FREE-JET SPEED M/SEC (O.		
OR BACKGROUND NOISE 40.0 FT. ARC XO2040		PWL		.9 152 .7 154 .5 156 .8 156	C 0 80 -	2 158 8 158 6 158	108.2 156.7 107.5 156.3 107.4 155.6 105.5 155.2	155 153 154 153	9 152 4 152 0 153 4 152 4 153	9 155	TAMB	MODEL 0.		
LL I	ES			121.0 122.1 124.3	124.8 125.8 129.4 125.2	122.2 1 120.8 1 119.9 1	116.7 115.6 114.2 7.2	112.4 110.1 108.6 105.2	101.5 97.8 92.3 88.8	135.2 1	A SB59 B 29.4200	- (NI 0S	-	
S CORRECTED DAY, SB FJ-ZER-FMODL	INLET, DEGREES			l .	1	1	120.5 119.2 120.0 118.1 118.6 116.9 117.8 115.5		1 1	1	IALPHA PAMB	SIZE M (21.49	•	-
OUND PRESSURE LEVELS CORRE 70 PERCENT R.H. STD. DAY, ATION - MODEL FJ-ZER- BACKGROHND COCCCC	FROM				1		3.2 116.2 4.3 115.6 3.7 114.8	ł.	101.3 106.1 99.2 102.8 95.1 99.2 89.3 96.0 85.0 91.8		ND. N312 RDG. ADH191	138.7 SQ CM		•
SOUND PRESS 70 PERCENT CATION - MC	SLES ME	3		98.3 7 98.3 7 98.8 5 100.4	101.5 102.8 104.6	106.1 106.6 110.0	8 110.9 10.9 6 09.6	108.7 107.6 106.2 103.6	97.1 97.1 89.0 83.9	76.8	TAPE NO AERO. RDG	T) ARC		
MODEL EG. F., DENTIFI	AN			4000	98.0 100. 99.3 101. 105.9 105. 105.7 106.	- 4100	10400	.2 108 .5 108 .7 106	103 98 96 90 82	.6 121.	1-78 INECH CH	ACCUSTIC RANGE 2 M (40.0 FT)	•	
UNTRANSFORMED 59.0 D	, c			- 6 4 5	7 105.	7 109. 0 112. 1 110.	5 108. 5 108.	0 4 4 6	.5 97. 2 96. 7 91. 2 86.	.2 76.	ATE 03-23-78 ION C41 ANECH	ACCU 12.2 M		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	CENT R.H.	IDENTIFICATION - FJ-ZER-FMODL X02040	ANGLES MEASURED FROM INLET, DEGREES	50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		8 93.1 92.9 93.2 95.8 98.2 100.6 103.1 110.2 114.8 121.0 117.9 152 4 92.9 93.2 95.8 97.7 98.3 100.2 104.9 113.0 116.9 122.1 118.7 154	9 94.2 93.7 95.3 97.7 98.8 101.0 106.7 116.3 119.9 124.3 118.5 156 0 96.5 96.1 96.7 99.5 100.4 102.8 107.8 118.1 121.0 124.4 118.8 156 1 97.1 96.7 99.0 100.9 101.5 104.7 110.4 119.5 122.3 124.8 119.7 157	4 98.7 98.7 99.3 101.6 102.8 106.4 112.2 120.5 123.6 125.8 119.9 158.8 5 101.6 102.8 109.3 105.3 105.9 105.7 104.6 108.0 115.5 124.1 129.2 129.4 122.8 163.2 5 105.7 105.3 105.7 105.1 1 3.9 109.1 114.6 120.9 125.5 125.2 118.1 159.6 5 105.7 105.1 1 109.5 115.2 120.3 123.7 122.2 115.2 158.3 5 105.7 105.1 109.5 115.2 120.3 123.7 122.2 115.2 158.3	0 112.0 112.5 112.4 110.2 106.6 110.0 116.7 121.6 122.5 20.8 112.8 158.3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 108.6 108.6 109.4 110.8 110.9 114.3 115.6 120.0 118.1 115.6 107.5 156.3	1 104.2 105.0 107.2 108.6 107.6 110.0 111.6 114.6 112.2 110.1 103.5 153.8 1 104.2 105.0 107.2 108.0 106.2 108.7 109.8 114.3 110.0 108.6 102.2 154.0 1 99.9 101.8 104.7 106.0 106.9 108.3 111.4 1\subseteq 3.5 105.2 100.6 153.4 1 07.5 27.5 107.4 107.5 100.4 101.3 106.1 107.9 105.0 101.5 97.9 152.7	1 95.2 96.4 97.2 98.1 97.1 99.2 102.8 106.4 101.0 97.8 91.4 152 5 90.7 91.5 96.0 96.6 92.5 95.1 59.2 103.0 97.3 92.3 88.0 153 1 94.2 86.5 88.3 90.5 89.0 89.3 96.0 98.1 92.8 88.8 82.4 152 1 78.7 80.6 80.8 82.6 83.9 85.0 91.8 92.3 87.7 83.7 77.4 153	7 74.2 76.6 75.1 77.9 76.8 80.5 86.9 88.8 83.5 76.6 70.9 155.3 3 120.2 119.8 120.6 121.4 120.9 123.1 126.8 132.4 134.6 135.2 129.2 170.9	ULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) O. REFRACTION CORRECTION - VES 1.000 CALC. 1.000 FREE JET DIAMETER (II.) 48.00 TURBULANCE CORRECTION - YES	TEST DATE 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 54.50 LOCATION C41 ANECH CH AERO, RDG. ADH191 PAMB 29.4200 RELHUM 61.80	POINT ACOUSTIC RANGE 104 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL O. M/SEC (O. FPS)	
		•			50 80 80 80	0 93.8 ¥3.1	92.7 93.9 94.2 93.0 95.0 96.5 94.8 96.1 97.1	99.1 97.4 98.7 113.2 112.5 108.7 110.3 109.8 108.1	111.2 111.0 112.0 109.3 110.1 110.1 109.1 109.6 109.6	108.1 108.6 107.0 108.5 106.4 107.0	100.3 102.9 104.2 98.3 101.4 103.2 93.5 93.5 95.5 95.5 95.5 95.5 95.5 95.5	. 9 92.1 95. .7 87.5 90. .8 83.1 84. .8 79.1 78.	69.0 73.7 74.2 120.6 120.3 120.2	L SIZE	TEST DATE LOCATION	MÜDEL TEST POINT 0200 0204 1	2

TOPINITE NAME FORMED SCALED AND EXTRAPOLATED SOUND PRESSURE LEVELS	02/15/80 9.180						ORIG OF P	NAL F	AGE I						FREE-JET SPEED M/SEC (0. FPS)
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		6	Ş	J. 70. BC	.5 75.8 77. .8 78.1 79. .4 78.6 80. 8 80.6 81	.6 87.1 88. .5 91.3 88.	.3 91.7 94. .5 89.6 91. .0 88.9 89.	.4 88.3 89. .7 87.3 89. .5 86.1 88.	.3 84.2 87. 9 83.1 86. 7 80.1 83. 4 74.3 80.	.5 59.6 65. .0 43.8 48.			55	FEST DATE 03-23-78 LOCATION C41 ANECH	31.
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				٠ ٢	-			121.1	152.5	154.4	155.9	160.2	160.1	57.4	157.4	156.8	56.2	155.0	154.4	53.8	152.5	152.9	151.0	151.4	150.6	150.8 153.2	169.4		TAMB	68		
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88	FMODL	DEGREES	140.					113.0	<u>ق</u>	4 6	i lu	6	٠. ٥	2	. m	-	119.6	9	က္ျ	<u>ب</u>	ĸ,	0 4	(0)	4.66	90.6	85.0 82.8	133.8		IALPHA PAMB	SIZE 21.49 S		
. DAY, SB	FJ-300-FMODL FJB300-FMODL	INLET,	130.					107.4		114.5	117.7	121	121	- 1 a	120	121	2 2	118	117.8	9 -	114		9	105	5 2	90.0	131.3	4) E		
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70 PERCENT R.H.	MODEL	MEASURED	110.		- 1			1 :						106.6			=	112	112.2	10	108.6	107.7	99.6	97.7	87.0	82.3			E NO.	138		
O PERC	- NOII	LES	\$					- 1		97.6	t			- 1			- 1		108	i			1			73.6			TAPE AERO. F	r) ARC		
٠.	IDENTIFICA	ANG	96					_	_	96.2	مار	. ~	_	_	· -			_		3 108.0			- -			79	6	1	E E	RANGE		
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86.7 88.2 88.3 89.8 87.7 88.6 90.2 92.1 84.9 78.0 66.6 172.8 86.4 88.2 88.3 88.3 88.3 88.3 88.5 88.1 74.6 62.0 172.5 90.0 68.5 87.0 89.2 87.0 89.2 87.1 74.6 62.0 172.5 90.0 83.7 81.9 81.2 74.6 62.0 172.5 90.0 83.7 81.9 81.2 77.4 82.3 86.4 87.5 81.2 77.6 81.6 81.2 77.9 95.1 43.3 771.9 77.4 82.3 82.7 78.3 77.6 81.6 81.2 70.9 59.1 43.3 771.9 72.0 72.0 72.0 74.6 72.6 62.0 74.6 75.6 62.6 62.0 77.6 62.0 74.6 75.6 62.0 74.6 75.6 62.0 74.6 75.6 62.0 74.6 75.0 64.7 64.5 75.0 74.7 72.0 72.0 74.7 72.0 72.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.9 75.0 74.0 74.9 75.0 74.0 74.0 74.0 74.0 74.0 74.0 74.0 74	89.0 90.0 91.2 90.4	93.7 94.9 90.1 83.2 01.0 02 6 87 6 80 4	173.7
B6.4 88.2 88.2 88.2 88.2 88.2 88.5 81.7 74.6 5.6 4.7 55.0 712.5	7 88.3 89.8 87.7	90.2 92.1 84.9 78.0	172.8
77.4 82.3 82.7 78.3 77.6 81.6 81.2 70.9 59.1 43.3 171.9 77.4 82.3 82.7 77.6 81.6 81.2 77.9 59.1 43.3 171.9 77.4 82.3 82.7 78.3 77.6 81.6 81.2 73.4 62.3 46.5 25.7 171.5 771.5 62.5 62.5 62.5 62.6 62.8 60.8 47.4 28.1 171.6 171.1 62.5 62.5 62.5 62.5 62.5 62.5 62.5 62.5	86.4 88.2 88.9 86.4	88.2 88.5 81.7 74.6	172.5
72.3 73.6 74.4 72.0 72.0 74.6 73.4 62.3 46.5 25.7 171.5 62.5 64.8 60.8 47.4 28.1 171.6 62.5 67.6 67.6 62.5 64.8 60.8 47.4 28.1 171.1 6.2 67.6 67.6 67.6 67.5 64.8 60.8 47.4 28.1 171.1 6.2 67.6 67.6 47.6 47.6 47.6 47.6 47.6 47.6	4 82.3 82.7 78.3	81.6 81.2 70.9 59.1	171.9
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103.2 104.2 102.4 100.9 101.7 105.8 109.7 111.1 109.5 98.0 188.0 109.8 111.2 110.7 108.5 109.5 112.3 114.7 113.0 110.4 98.3 111.4 113.0 111.9 108.5 109.5 112.8 114.7 113.0 110.4 98.3 DIAMETER RATIO 8.070 FREQUENCY SHIFT -9 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 46.94 C41 ANECH CH AERO. RDG. ADH200 PAMB 29.4300 RELHUM 83.10 ACOUSTIC RANGE 11.5 M (2400.0 FT) SL 9032.2 SO CM (1400.00 SQ IN) - FULL 89.92 M/SEC (295.0 FPS)	20.1 24.0 25.4 24.9	24.9 14.9	-11 ·
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103.2 104.2 102.4 100.9 101.7 105.8 109.7 111.1 109.5 98.0 188.0 109.8 111.2 110.7 108.5 109.5 112.3 114.7 113.0 110.4 98.3 111.4 113.0 111.9 108.5 109.5 112.8 114.7 113.0 110.4 98.3 DIAMETER RATID 8.070 FREQUENCY SHIFT -9 C41 ANECH CH AERO. RDG. ADH200 PAMB 29.4300 RELHUM -83.10 ACOUSTIC RANGE ACOUSTIC RANGE 1.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 89.92 M/SEC (295.0			
103.2 104.2 102.4 100.9 101.7 105.8 109.7 111.1 109.5 98.0 188.0 109.8 111.2 110.7 108.5 109.5 112.3 114.7 113.0 109.9 98.3 111.4 113.0 111.9 108.5 109.5 112.8 114.7 113.0 110.4 98.3 DIAMETER RATIO 8.070 FREQUENCY SHIFT -9 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 46.94 C41 ANECH CH AERO. RDG. ADH200 PAMB 29.4300 RELHUM 83.10 ACOUSTIC RANGE ACOUSTIC RANGE 1.5 M (2400.0 FT) SL 9032.2 SO CM (1400.00 SQ IN) - FULL 89.92 M/SEC (295.0			
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DIAMETER RATID 8.070 FREQUENCY SHIFT -9 03-23-78	4 113.0 111.9 108.5	112.8 114.7 113.0 110.4	6.
03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 46.94 C41 ANECH CH AERO. RDG. ADH200 PAMB 29.4300 RELHUM -83.10 ACOUSTIC RANGE SIZE SIZE FREE-JET SPEED 1.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 89.92 M/SEC (295.0	RATIO 8	FREQUENCY SHIFT -	
ACOUSTIC RANGE FREE-JET SPEED 1.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 89.92 M/SEC (295.0	03-23-78 TAPE C41 ANECH CH AERO.	IALPHA	83
	ACOUSTIC RANGE .5 M (2400.0 FT) SL	SIZE .2 SQ CM (1400.00 SQ IN) -	FREE-JET SPEED 89.92 M/SEC (295.0

##ED MODEL SOUND PRESSURE LEVELS CORRECTED FOR TO DEG. F., 70 PERCENT R.H. STD. DAY. SB 40. IDENTIFICATION - MODEL FU-400-FMODL X BACKGROUND FUB400-FMODL X BO. 90. 100. 110. 120. 130. 140. 15 112.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2 121.2	(396.0 FPS)	
SOUND PRESSURE LEVELS CORRECTED , 70 PERCENT R.H. STD. DAY, SB ICATION - MODEL BACKGROUND FUB400-FMDDL BACKGROUND FUB400-FMDDL BACKGROUND FUB400-FMDDL BACKGROUND FUB400-FMDDL 5.2 95.8 98.7 102.4 110.7 115.5 5.2 95.8 98.7 102.4 110.7 115.5 5.2 95.8 98.7 102.4 110.7 115.6 6.0 97.9 100.3 105.5 116.1 120.0 7.6 99.0 102.7 107.9 117.5 121.0 0.6 101.3 106.7 111.8 118.4 122.0 7.4 109.5 112.7 115.6 119.0 122.0 7.4 109.5 112.7 115.6 119.7 118.1 8.0 108.1 111.2 115.8 118.4 122.0 7.4 109.5 112.7 115.6 119.7 118.6 8.0 108.1 111.2 115.8 116.4 115.6 8.0 108.1 111.2 115.8 116.4 115.6 8.0 108.1 111.2 113.7 116.4 117.0 8.5 109.4 113.5 115.3 119.4 117.0 8.5 109.4 113.5 115.3 119.4 117.0 8.5 109.4 113.5 115.0 118.0 115.8 8.0 108.1 113.7 110.3 113.2 108.8 8.0 108.1 110.3 113.2 108.8 8.0 108.1 100.4 105.7 109.7 105.3 95.9 95.4 98.2 095.1 106.1 90.1 88.0 95.1 98.0 95.1 96.1 90.2 88.4 80.8 82.0 91.8 90.2 85.8 88.4 80.8 82.0 91.8 91.2 133.7 9.5 119.7 122.1 125.6 131.2 133.7	- MODEL 120.7	
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59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-300-FMODL X02080	ANGLES MEASURED FROM INLET, DEGREES	70, 80, 90, 100, 110, 120, 130, 140, 150, 160, PWL		89.3 89.8 91.4 95.2 101.9 106.1 112.3 109.8 144	89.9 90.8 90.2 91.8 97.4 106.8 110.6 115.6 1 90.6 91.3 91.4 93.2 99.4 109.0 113.0 117.4 1 91.8 92.7 93.1 94.7 102.3 110.6 114.9 118.3 1 93.2 94.1 94.7 96.8 104.2 111.5 115.5 118.5 1	95.9 98.5 105.1 112.1 115.2 117.4 109.8 1 97.7 100.0 107.7 112.3 116.5 117.7 108.9 1 98.6 101.1 108.6 112.9 116.1 116.4 108.8 1 99.8 101.8 109.9 114.5 116.4 115.9 109.0 1	.3 97.6 98.9 99.7 102.9 110.2 117.1 117.7 116.9 8 99.1 100.2 101.5 103.7 111.1 116.2 118.1 117.4 8 99.8 101.2 102.0 104.5 110.5 115.1 115.0 115.0 100.2 101.3 102.1 104.6 109.4 114.5 114.6 112.2	102.0 102.3 103.1 105.5 110.3 114.3 113.5 111.9 106.7 102.4 104.0 103.7 105.9 110.4 113.6 112.5 110.2 106.1 102.0 103.6 104.1 105.8 109.4 112.9 111.2 109.9 104.7 102.2 104.0 103.2 105.4 108.2 111.3 108.8 107.7 104.0	.1 102.0 102.5 102.3 103.6 106.6 111.6 107.8 106.9 103 .0 102.1 102.5 100.6 102.7 105.0 108.4 105.6 104.9 103 .5 100.7 100.9 98.2 99.6 102.9 104.9 103.0 102.5 102 .7 97.7 98.0 95.2 95.1 99.9 104.0 101.6 97.2 97	.5 92.7 92.5 91.1 91.5 95.8 100.0 98.3 93.1 93.4 147.4 91.4 91.0 86.2 86.4 91.8 94.5 93.7 88.2 88.0 147.6 83.2 84.1 81.2 80.9 88.8 90.1 87.8 82.7 83.4 146.4 75.2 75.9 75.9 73.8 84.2 88.3 83.8 76.1 76.9 147	70.8 67.8 68.3 74.4 78.5 74.0 66.3 67.1 145.3 113.5 113.4 115.6 120.9 125.9 127.2 128.1 121.9 164.0	LE FACTOR FREE JEI VELOCITY (FT/SEC) 297.00 REFRACTION CC 1.000 FREE JEI DIAMETER (IN) 48.00 TURBULANCE CC	03-23-78 TAPE ND. N312 IALPHA SB59 TAMB 48.74 C41 ANECH CH AERU, RDG. ADH196 PAMB 29.4500 RELHUM 78.60	ACOUSTIC RANGE 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL 90.53 M/SEC (297.0 FPS)	
		. 50. 60.		1 1	90.8 90.0 91.5	.9 93.5 94.0 .7 94.3 95.1 .2 95.5 96.8 .6 98.0 99.0	•	100.8	99.7 98.1 97.5	90.9 91 84.9 87 81.1 84 75.2 76	66.8 67.	MODEL/FULL SIZE SCAL INPUT 1,000 CALC.	TEST DATE LOCATION	TEST POINT 0208	
		40 FREQ	08 0 08 0 00 0		99.00	92 95 96	86 89 60	8558	12500 98 16000 96 20000 95	88 84 81 73	80000 64.5 0ASPL 110.8	MODI		MODEL TE 0200	22

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																																0	FREE-JET SPEED .53'M/SEC (297.0 FPS)	
LEVELS				7 167.3			- 1		8 169.5									9 166.4 8 165.6		164.7	163.5							.6 182.0	2		TAMB 48.74	82	6	
UND PRESSURE 1 2400.0 FT. SI	X02081	DEGREES	0. 150. 160	93.9 84.	94.7 84.	94.9 83	93.7 82	92.3 84	94.4 91.5 80.	92.0 84	88.9 79	85.5 76	82.1 72	81.2 69	78.1 67	72.3 61	67.2 56.	56.9 41. 43.8 23.	25.2	ღ.								7 103.3 92	8 105.3 95	SHIFT -9	HA SB59		O SQ IN) - FULL	
SCALED, AND EXTRAPOLATED SOUND PRESSURE PERCENT R.H. STD. DAY, SB 2400.0 FT.	FJ-305-FMODL X	FROM INLET, DEG	120. 130. 140.	89.3	90.8	91.7	92.2	92.6	90.7 94.1 94	95.2	93.7	92.8	91.0	90.1	88.1 87.4	84.0	79.4	76.0	54.2	35.6	1			-	•				107.4 110.1 109	FREQUENCY	N312 IALPHA		SIZE SQ CM (1400 00	
CALED, AND EXPERCENT R.H.	FICATION - FJ-	ES MEASURED FR	100. 110. 1	75.2	76.7	78.8	80.4	82.8	81.8 83.3 9	84.7	85.2	85.0	85.8	85.5	85.0 85.0	81.6	77.9	65.0	54.5	38.2	11.8							95.9	102.3 104.2 10	ATIO 8.070	TAPE NO. N3	DG.	SL 9032.2	
FORMED,	IDENTIF	ANGLE	80. 90.	3.0 73.9	2 75.2	5.5 76.6	.5 78.1	.6 /9.5 9 8 6.0	2 81.6	80.8	.0 82.5	.1 82.4	8 84.6	.3 84.0	.3 84.3 82.5	8 82.4	.8 80.3	7 76.0	2 61.3	.9 44.6	.8 18.6							0.94.3	103.9 104.6 1	DIAMETER RA		CH	ACOUSTIC RANGE 5 M (2400.0 FT)	
FLIGHT TRANS 59.0 DEG			60. 70.	7.4		7 74.	76.7	77.4	.	79.7	3 80.6	9 81.7	8 81.0	5 81.1	80.7	80.0	1 76.8	2 71.5	56.5	6.96.9	.7 13.4							2 92.0	100.9		DATE 03-23-78	LOCATION C41 AN	ACOUS 731.5 M (
			40. 50.	70	7	72.	.4 73.	. 1 74. 4 75	74.5 77.6	.8 76.	6 78.	.6 80.	5 80	.1 77	ໝຸດ	6 73	.6 71	.5 66	.8 44.	5.0 26								6	93.0 96.5 93.0 96.5 1		TEST	7007	TEST POINT 0208	
26				FREG	8 6	80	<u>\$</u>	125	500	250	8	500	900	<u>5</u>	1250	2000	2500	3150	2000	6300	0000 0000 0000	12500	16000	25000	31500	20000	80000	OASPL	PNLT				MODEL 0200	

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40.0 FT. ARC	X02090 X05220		160.			0 00		108.8			20.00	98.0	98.8	000	101.1		96	95	υ Q υ Δ	92.3	06	85.2	75		2.70	116.9	.00		- MODEL	
40.0		ES	150.			711	115.3	116	1						1			1			i .			73.8	3	124.9	1 SB59		SQ IN)	
SB	FJ8400-FMDDL FJ8400-FMDDL	, DEGREE	. 140.			101		5 112.4	115	115	1 1 4	1-14	114	2 116.4 4 116.9	114	= = =	- 2	108	5 5	0	96		82	7 77.8	2	7 126.2	IALPHA		S1ZE 21.49	
TD. DAY	FJ-40	M INLET	0. 130		:	405			- -	-		-	_		-				. 2 109.0 108.0					.3 80.7		125.	N312 ADM 107		SQ CM (
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PERCENT R.H.	ION - MOI	S MEASURED	100.				. ~			ο.		- 10	~	~ ~	1	- 0	20	-	~ R	, O	0	0 C	4	73.5 7	n	112.2 116.	TAPE NO.	-1	ARC	
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59.0 DEG. F.	IDENTIFICA		80				87.7	~ .	٥١٥	D.	co <	10	ო	۰. ٥	, L	-, •	• 60	m	œ n	4	-	oi o	. ~	- 1	04./	108.8	3	בי	STIC RA	
59.0			70.			- 1	85.68 85.68	•				• •										•		٠.		107.6	03-23-78	4 A	ACOUSTIC 2,2 M (4	
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			50.				85.0 84.6	86.1	88.6	87.9	0.00 0.00	92.3	92.4	95.4	97.9	95.5	90.00	95.5	93.7	90.3	87.6	83.5	73.9	68.1	6 0.6	106.7	TEST	ž	T POINT 0209	
			ę.	FREQ 50 63		- 1	83.3	82	- 1	89.		99.		94.6			92.		•					65.2		105.8			DEL TEST 0200 03	

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																						;					CORRECTION - YES CORRECTION - YES	47.30 81.60	FREE-JET SPEED 120.70 M/SEC (396.0 F	
ပ္			PWL						142.7		148	1			1 '		1		-	11		149.2	1		143.6	163.4	REFRACTION TURBULANCE	RELHUK		
FT. ARC			. 160						108		2 108.5	1		5 108.3 5 109.1	5 111.8	113.6						2 105.3 100.8	ļ ,		69.3	2 122.5	REFR/ TURBL	SB59 29.4500) - MODEL	
LEVELS 40.0 FT	X02090		150.						- -	5 1	116.2	114	112	3 111.6	ı		- 1		2 2	109.3	9	_	1	84.6		126.2	88		SQ IN)	
SB		_	140.			•			104.5	122	3 113.7	3 113.	6 114	2 113.8	5 116.4	0 117.8	4 113.6	112.4	8 109.4	108.		8 102.0 2 99.8	97	855	5 70.4	5 126.0	396.00	IALPHA PAMB	SIZE 21.49	6
STD. DAY,	FJ-400-FM0DL	ES MEASURED FROM INLET,	130						90		109.3						- 1			ı		104.8 102.2	86	87	74.	0 125.6	VELDCITY (FT/SEC) JET DIAMETER (IN)	26) WS	ŧ,
י עו	FJ-40	FROM	120						93.			1									ភូចិ		1	8 6 6	73.	3 121.0	SITY (I	N312 ADH197	3.7 50	
	- NOI	ASUREC	10.						89.		93.6											99.8	1		67.	115.6	1	PE NO.	138	
TRANSFOR			\$						88.															8 4 1		5 113.1	REE JET FREE	TAPE AERO. F	r) ARC	
FLIGHT TR	IDEN	ANG	06						- 1			1			1					- 1			1	83.4	1	4 113.5	<u>#</u>	퓽	RANGE 40.0 FT	
0									87	7 C)	5 91.2	6	94	96	97	80 G	5	103	25		5 2	호 8 6	92		68	112.	FACTOR 1.000	03-23-78 C41 ANECH	ACDUSTIC 2 M (4	
59.			6						88	8 6	88	92	94	9 6	96	97	99	102	35	5 5	3 8	66	92	84.8	8/ 69	3 111.7	SCALE F	1	12.2 h	
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8			FREC	20	60	\$ \$	125	88	250	315 400	200	800	1000	1250	2000	2500	4000	5000	800	10000	16000	20000	31500	500 500 500 500 500	80000	DASPL			MODEL 0200	

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	ED FOR	40	1	DEGREES	140. 1					07.0 11	140		12.1 116 10.4 115	-	2 L	11.1 11. 10.9 11!	-		3.8 10	9.2 10	3.4 9	3.6 8	78.1 80.	3.1 127	ALPHA SI	SO			
	CORRECTED	AY, SB	FJ-ZER-FM0DL 0000000000000	INLET, DE	130. 1					-	108.0	-		-									75.0 7 69.5 7	121.0 123	IAL	SIZE (21.49			alesanda area de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición de la composición dela composición dela composición dela composición de la composición del composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición
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	SURE LE	70 PERCENT R.H.	MODEL BACKGRÜUND		110.					94.1	94.7	97.9 10		- 1			1		1		1	83.1	1	113.9 1	E NO. N. RDG. AL	138.7			
	D PRES	PERCEN	'	S MEASURED	90					0 0	92.6	A R	<u>س</u> م	-			0.00		1		ı		70.8 63.5	10.9 1	TAP	ARC			
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	ASFORME	59.0 DEG.			70.							*1 *		· ' • I			4 .						67.2 62.5	106.3	03-23-78 C41 ANECH	ACGUSTIC 2 2 M (4			
	UNTRAN				.09					86.3	88.2	90.6	91.7	92.6	93.4	80 P.	95.2	94.5	95.0	91.7	85.5	77.9	65.1 59.4	106.3	TEST CATE	¥			
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	23 0					FREQ 50	9 9	125	6 5	200	200	930	8 5 8 5	1250	1600 2000 2000	2500	9 5	9300	10000	6000	25000	96	63 000 8 0000	OASPL		MODEL	30		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-ZER-FMODL X02100	ANGLES MEASURED FROM INLET, DEGREES , 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		86.3 86.4 87.0 89.6 92.0 94.1 96.1 102.7 107.0 113.0 110.4 1	4 86.7 87.5 89.6 91.9 92.3 94.2 97.7 104.2 108.4 114.6 1 7 88.2 87.5 89.3 91.5 92.6 94.7 99.2 108.0 111.4 116.3 1 5 89.5 89.3 90.4 92.8 94.2 95.8 100.3 108.9 112.2 116.7 1 6 00.6 00.9 03.8 94.4 05.5 07.9 102.4 109.5 112.6 117.0 1	91.7 91.9 92.8 95.1 96.3 99.4 104.2 110.0 112.1 116.5 112.7 149.1 94.2 93.5 93.9 96.5 97.9 100.3 105.5 110.4 115.9 112.5 148.7 95.6 94.9 95.7 98.1 98.7 101.9 105.8 110.6 112.3 116.4 112.4 149.4 95.7 98.1 98.7 101.9 105.8 110.6 112.3 116.0 112.5 148.9	94.7 94.5 95.3 97.0 95.3 102.3 106.5 109.6 110.5 115.5 110.8 148.5 94.8 95.1 96.2 98.3 100.0 102.9 105.8 110.2 111.1 116.1 109.4 148.9 95.1 96.0 98.6 100.2 103.9 106.3 109.2 111.1 115.1 108.4 148.4	4 95.2 94.8 96.4 98.5 99.9 103.3 105.3 107.9 110.9 112.8 107.0 1 94.3 94.8 95.9 96.5 103.2 105.3 107.1 109.1 111.9 106.6 1 8 95.4 94.8 95.9 95.9 107.1 104.6 106.2 108.0 110.7 104.8 95.9 95.9 95.1 107.7 104.6 106.7 108.0 110.7 104.8 95.9 95.9 95.1 107.7 107.8 107.8 105.5 108.0 110.7 104.8 95.9 95.9 95.9 95.1 107.7 104.6 106.7 105.5 108.0 110.7 104.7 104.8 95.9 95.9 95.9 95.9 95.9 95.9 95.9 95	95.0 94.6 96.8 38.5 98.7 101.8 103.3 103.2 105.2 105.1 103.7 103.0 144.5 103.2 93.7 95.2 97.3 97.3 99.7 101.3 102.8 107.3 103.0 144.5 103.7 92.6 94.7 96.9 95.6 98.3 99.5 101.7 102.2 105.3 101.2 144.3 103.1 89.9 93.6 95.1 93.1 95.3 97.3 98.3 99.2 103.1 99.0 143.6	.5 85.4 90.9 91.5 85.5 90.5 94.6 95.5 93.4 95.0 90.4 17.7 84.6 84.9 85.9 86.1 87.4 91.5 93.5 93.4 95.0 90.4 17.5 84.0 84.4 87.5 89.1 89.8 87.3 17.5 75.9 77.3 76.1 75.9 82.3 81.7 83.6 85.9 82.0 17.5 67.2 68.4 69.7 70.8 69.8 78.0 75.0 78.1 80.5 76.5 1	4 59.4 62.5 62.0 64.8 63.5 64.1 72.4 69.5 74.2 74.5 70.1 141.9 5 106.3 106.3 107.7 110.0 110.9 113.9 117.0 121.0 123.1 127.5 123.0 160.9	SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) U. KEFKACIION CL	DATE 03-23-78 TAPE NU. N312 TALFHA SB39 TAMB 33-30 TION C41 ANECH CH AERO, RDG. ADH194 PAMB 29.4200 RELHUM 65.60	NT ACOUSTIC RANGE 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MQDEL O. M/SEC (O. FPS)	
			.3 86.4	.7 87.5 2 87.5 5 89.3	2 93.5 6 94.9	8 95.1 95.4	2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 93.7 7 92.6 1 89.9	.7 84.6 .9 79.5 .3 73.6	.4. 62.5 .3 106.3	= ·			
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	Ţ.				.09	69.5	70.8	71.9	72.8	75.3	74.2	75.3	7.07	74.7	73.6	73.4	73.5	71.2	69.3	64.9	60.4 4.03	42.8	23.1									86.1	92.5	92.5			TEST DATE	73		
					20.	67.9	68.7	8.69	70.2	72.7	72.3	73.8	73.7	72.6	71.9	71.6	70.2	67.8	65.2	61.1	54.9	33.2	14.1										89.4				TEST LOC	T POINT 0210		
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DAY, SB	FJ-300-FMODL FJB300-FNODL	T, DEGREES	140.			.6 103	108.2	109.5	108.9	109.8	108.2	107.4	106.2	106.3	105.2	104.2	90	91.7	89.1	78.5	72.4 67.6	119.9	I ALPHA PAMB	S1ZE 21.49 S0	-	
STD.		FROM INLET.	120. 130			86	95.5 104	96.8 105.4			103.4 107.8		103.8 107.2								76.6 73.5 70.6 66.5	114.4 118.8	N312 ADH20@	.7 SQ CM (
PERCENT R.H.	N - MODEL BACKGROUND	MEASURED	100. 110.			l l	3.6 90.7	- 1			1		5.9 100.6 5.5 100.2			-	•	-			70.5 69.8 64.0 63.2	107.7 110.9	PE NO.	ARC 138.		
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234						TOA		9007				FVE			02/	02/15/80	9.180	•	
				59.0	0	EG. F., 70 PE	PERCE	RCENT R.H.	STD.	STD. DAY, SB	1.	40.0 FT.	ARC						
						IDENTIFIC	FICATION	i	FJ-300-FM0DL	HODE	X02110	_							
						ANGLES	1	SURED	MEASURED FROM INLET	-	DEGREES								
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ſ	m .	63.0	•	67.1	66.2		eo e	64.8	<u>د</u>		66.9 6	64.1 6	66.8 13	139.8					
4	_	7 1	SIZE SO	ALE FA	FACTOR	FREE	JET	VELOCI	VELOCITY (FT/SEC)	í	10	1	10		CORRECTION	- YES			
	INPUT	0		CALC. 1.0	8		FREE	JET DI	AMETER	(IN)	48.00	2	RBULAI		RRECTION	- YES			
		TEST	TEST DATE LOCATION	03- C41	! -	.	TAPE AERO. R	. 20 20 20 30	N312 ADH208		IALPHA 9	5859 29.4400	1	TAMB	56.48 66.80				
MODEL 0200	TEST 02	T POINT		AC0U	ACDUSTIC R	RANGE 40.0 FT)	ARC	138.7	7 SO CM	-	SIZE 21.49 SQ	- (NI	MODEL	6	FREE-JET 90.53 M/SEC (JET SPEED	ED .O FPS)		
										1									1
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02/15/80 9.180															OR OF		NA DOI			AGI JA										.48 .80	FREE-JET SPEED 1 M/SEC (297.0 FPS)	
0 1 5 / E / E	re revers			160. PWL		75.2 161.9	٠,			1		70.3 161.9 70.1 162.4	1					- 1	159.8	159.0	0.05						84.5 175.0	86.1		TAMB 56. 400 RELHUM 66.	- FULL 90.53	
1900 CHINO CO	SB 2400.0 FT. SL		, DEGREES	ď	86.5	86.3	85.7	85.2	84.4	84.2	83.0	7 83.3 79.3 1 82.9 79.4	82.3	81.2 78.4	75.3	72.3	61.6	52.4	14.0									100.0	ENCW SHIFT -9	IALPHA SB59 PAMB 29.44(S12E (1400.00 SQ IN)	
	R.H. STD. DAY,	- FJ-300-FMODL	MEASURED FROM INLET,	0. 120. 130.	76.8	81.1 86	83.0 86	83.9	83.7 86	83.1 86	83.5 84	8 8	83.0 83	81.6 82	5 78.4 79	76.8 76	2 69.8 67	6 62.8 58	6 37.1 26	7 0							94.4 97.	101.3 101.	.070 FREQUENCS	. N312 . ADH208	9032.2 SQ CM (14	
400	O PERCENT	DENTIFICATION	ANGLES MEASUR	90. 100. 110	.1 70.3		.4 74.9	.2 75.6 76.4	1 77.2	.6 77.7 0 78.9	5 78.2	77.9 77.8 79.9	6 78.4	.5 78.1	5 76.2	7 74.6	67.9	61.9	38.1 38.1	5 14.6							.3 89	97.5	RATIO 8	TAPE NO AERO. RDG	GE FT) SL	
	59.0 DEG. F.,	01		70. 80.	69.3	9 72.5	72.8	73.9	75.9	75.1	7 76.5	75.6 76.3 7	9.9/	77.3	5 76.3	76.5	70.6	2 61.7	39.2	13.0							.88 93.2 94.5	0.66	DIAMETER	03-23-78 C41 ANECH CH	ACGUSTIC RANGE 1.5 M (2400.0 F	
				50. 60.	5 67.	- 10	1 71.	72.	75.	2 74.	74.	72.0 74.1	2 74.	73.	74.	71.	8 64.	57.	30.	-							83.8 85.9	1.4 94		TEST DATE LOCATION	TEST POINT 73:	
				40.	ľ		- 1	125 69.8				500 70.0	1			1		- 1	5000 30.0 6300 8.9		10000	16000	25000 25000	31500	50000	80000	OASPL 81.8	88			MODEL TEST 0200 0	235

236									ŧ					02/15/80	9.180	
	P .	UNTR	UNTRANSFORMED MODEL 59.0 DEG. F.	DEG.	EL SOUND		SURE L	PRESSURE LEVELS CORRECTED RCENT R.H. STD. DAY, SB	SORREC JAY, SI	TED FOI	FOR BACKGROUND NOISE 40.0 FT. ARC	ARC	NOISE			
				IDENT	IDENTIFICATION	1 -	MODEL	FJ.	FJ-400-FMODL FJ8400-FMODL	MODL	X02120 X05220					
					ANGLES	ME	MEASURED F	FROM IN	INLET, DI	DEGREES		-			-	
	4 0.	50. 60.	70.	80.	.06	100	110.	120.	130.	140.	150. 1	160.				
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1	62.4 65 57.2 58	5.5 65.1 3.8 60.3	66.7	67.6 62.6	68.9 64.4	70.8 63.3	68.3 63.3		70.6 64.3	69.4	0 0	65.2 1: 57.9 1:	36.1 37.2			
OASPL 9	9.4 100	3.7 101.8	101.7	103.6	105.9 1	107.0	110.11	113.6 11	118.2 1	118.0 1	117.8 11	110.4 1	55.2			
	-	LEST DATE	82	3-23-78 11 ANECH CH		TAPE Aero. R	E NO. N	N312 ADH209	IAI	IALPHA S	SB59 29.4400		TAMB SE RELHUM GE	55.04 65.10		
			1												:	
MODEL 0200	TEST P0 0212	POINT 212	ACOU 12.2 M	ACDUSTIC RANG	ű E	ARC	138.7	SQ CM	\$17 (21	SIZE 21.49 SQ	SQ IN) -	MODEL	120.	FREE-JET SPEED 120.70 M/SEC (396.0	ED .0 FPS)	
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-400-FMODL X02120	ANGLES MEASURED FROM INLET, DEGREES 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		.9 85.3 84.9 84.4 84.1 84.4 84.9 89.4 95.4 99.5 105.7 102.4 1 .9 85.2 84.9 85.9 86.2 85.0 85.6 92.1 100.6 103.9 108.5 102.9 1 .6 86.9 85.6 86.1 87.3 87.1 87.8 93.9 103.1 106.1 109.1 102.3 1 .2 87.7 85.8 87.3 87.5 88.0 88.4 95.8 103.5 106.2 108.2 100.6 1	7 90.0 87.3 89.6 89.5 89.0 90.0 90.0 90.2 105.3 104.4 101.5 141.5 7 90.5 88.3 89.7 90.8 90.3 92.5 100.1 106.2 106.8 103.5 100.6 141.9 92.0 93.8 93.5 95.1 101.3 105.5 105.5 100.2 100.1 141.5 92.6 93.8 93.5 95.1 101.3 105.5 105.5 100.8 141.5 92.6 93.8 93.5 95.1 101.3 105.5 103.5 100.8 141.7	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 94.6 94.7 95.6 96.7 98.0 103.4 109.1 104.0 103.2 101.3 142.8 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	. 6 97.1 95.5 96.4 97.3 95.9 98.2 100.6 103.6 100.7 103.5 103.5 143.8	87.3 86.5 87.0 87.2 86.6 87.2 91.3 90.2 87.9 88.4 91.3 82.6 83.3 86.3 85.8 82.1 82.5 85.5 82.3 81.6 82.7 85.6 79.7 79.3 79.3 79.3 78.6 76.6 74.9 80.7 76.0 75.1 77.0 80.8 72.1 72.8 71.6 71.9 72.2 68.3 78.2 73.3 73.2 71.9 76.4 64.3 64.9 66.7 67.4 65.5 64.8 68.4 63.4 63.4 63.1 62.1 66.6	107.1 107.2 105.8 107.2 108.2 107.8 109.7 114.0 117.6 117.2 117.8 114.7 156.1 FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 396.00 REFRACTION CORRECTION - YES T 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES	TAPE ND. N312 IALPHA SB59 TAM3 55.04 NERO. RDG. ADH209 PAMB 29.4400 RELHUM 65.10	POINT ACCUSTIC RANGE 1212 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL 120.70 M/SEC (396.0 FPS)	
			1 86.9 85 1 86.9 85 0 87.6 86 4 88.2 87	5 90.7 90 4 90.7 91 3 91.5 92	9 93.7 94.3 94.3 94.3 94.3 94.3 94.3 94.3 94.3	94.9 94 1 96.0 96 8 95.9 95 9 96.9 96	9 96.6 97 9 94.5 95 9 94,4 95	1 87.4 9 80.5 7 72.8 7 65.6	107.1 107 /FULL SIZE UT 1.000	TEST DA LOCATI	EST 0.	
	4	63 63 100 125	250 85. 315 85. 500 87.	1		Į.	1	31500 85 40000 79 50000 78 63000 71 80000 63	OASPL 106.8		MODEL T 0200	237

9.180										C)RI)F	GIN PO	íAL OF	PQ	/AC	GE ALI	IS TY											SPEED 396.0 FPS)	
02/15/80																											.04	FREE-JET SPI 70 M/SEC (396	
	EVELS]		159.5	1		-1-	_ — .		_ +		- -	•		158.9 158.0	158.2						174.0			TAMB 55 RELHUM 65	120.	
	SURE L			9	75	73.3	73	72	7	69	99	69	67	59	S.	2 4									86.5	o	400	- FULL	
	SOUND PRESSURE LEVELS SB 2400.0 FT. SL	121	ES	ŧ.	85	82.6	79	77	77	16	76	75	4	72	50	3 3 3 3 3	19								94.4	IFT -	SB59 29.4	(NI bs	
	SOUN SB 2	X0212	DEGREE	140.	84.8	84.6	85.2	83.7	82.2	81.4	80.3	79.2	76.6	74.2	63.0	49.0	32.9							4.4	97.8	ICY SHI	IALPHA	SIZE (1400.00	
	OLATED DAY,	-FMODL	INLET,	130.	83.4	85.55 85.55	86.2	85.4 85.6	86.0	84.4	84.4 83.3	82.3	80.7	79.8	68.8	67.0 57.4	42.0							96.4	101.5	FREQUENCY		SW (140	
	STD.	FJ-400-	FROM I	120.	75.2	79.4	81.6	82.3 83.0	82.7	83.7	83.0 82.7	82.2	80.0	78.6	72.1	69.7 62.4	50.3	9.7							20.5		N312 ADH209	.2 S0 C	
	ED, AND EXTRAPOLATED CENT R.H. STD. DAY,	ı	MEASURED	110.	69.8	72.5	76.2	76.8	78.3	80.1	80.0 80.3	79.3	78.4	77.4	72.9	65.0 60.6	50.5	6.4							97.8		NJ.	9032.	
	CALED,	ICATION	1	100.	69.6	71.4	74.3	75.6 76.6	76.7	78.2	78.0	78.2	76.9	75.7	72.1	66.5	51.9	13.8						•	96.6 96.6		TAPE AERO. P	SL	
	MED, S	DENTIFICA	ANGLES	.06		22.0	• •		•1					•1										89.0	97.8			NGE O FT)	
	HT TRANSFORMED, SCAL 59.0 DEG. F., 70 PER	Ħ			י טו	72.0)-	ထတ	מ	ဖွဲ့က	n in	- 0	מ פ	6	. m	rv ee	- 0	N						7	97.3	IAME	78 ECH CH	STIC RANGE (2400.0 FT)	
	59.0 E				ω .	69.2	10	m -	6	- 2	- 6	r 1	nφ	r- α	9	N 0	m 4	60						6	95. 1 95. 7		03-23-78 C41 ANECH	ACOUST 5 M (
	FLIGHT 59			Ġ	7	71.3 6	- 2	4.0	6	ri α΄	- e	r 0	. .	4	. თ	e. 4	4 11	. ហ						6	0 8 8		1	731.	
				50.	.	4 4 6	0	e -	0	- 0	- 0	4	- 6	6	1 00	27	200							<u>ق</u>	2.7 9		TEST DATE LOCATION	ST POINT 0212	
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																							54.50 61.80	FREE-JET M/SEC (
				ž		149.6	155.3 53.3	154.4	155.5	156.4	156.4	155.2	153.7	152.7	152.0	151.3	150.1	148.5	148.9 149.1	148.6	150.8	167.2	TAMB	0		
40.0 FT. ARC	X02130 000000		160.			7 115.1	115.5	116.3	118.2	118.3	116.0	113.3	110.1	108.4	107.7	105.7	101.00 101.00	96.7	91.9 87.3	82.7		127.2	. 8) - MODEL		
		EES	. 150			.0 117.	-		122	123	122		116	114	5 111.5	2 5	7 106.5 8 106.6	\$ 5	3 96.0 3 91.1	87	5 82.2 0 75.3	.2 132.6	29 88	SQ IN)	2	
Y, SB	F-J-ZER-FM0DL 0000000000000	T, DEGREES	0. 140.			.4 112	.0 113	.6 119	.7 126	5 6 6	0	is c	2.	7 116	411 0	5 112	4 60 6	2 102.		4 91.	.6 85. .6 82.	5 131	IALPHA	S12E 21.49		
PERCENT R.H. STD. DAY, SB		FROM INLET,	120. 130	•		00.6 107	02.4 110	.0	.4 11	10.7 117	7117	12.5 117 12.4 118	- 60	- -	11.3 115	9		0	ni e	6	86.8 89 82.0 84	122.8 128	N312 ADH189	SQ CM (
IT R.H.	MODEL Background	MEASURED FR	110.		•	-	97.7 10			1	106.7			108.2 1	108.0	-		- -	94.2	- 1	77.5	118.7 13		138.7		
) PERCE!	NOI	ES	100			- 1		97.7		102.1	103.6	103.6	104.5	104.8 2.50	105.3	104.2	103.3	95.9			78.0	115.8	TAPE NO.) ARC		
F., 70	IDENTIFICAT	ANGL	90.			93	90	96	97	100.7	36	5 5	-	l' '					92.	84.	76.6	115.3	용	RANGE 40.0 FT)		
59.0 DEG. F.	IDEN		. 80.			91	93.	1 94.	2 95.	2 97.3 8 98.6	28	99.	50	101.	103.	103	N 60 (36	7 91	0 82	8 74.5 1 68.1	6 113.7	03-23-78 C41 ANECH	ACOUSTIC 2 M (
53			0. 70			ø	9.	ئە د	4 94	2. 2. 98 2. 98 3. 98	2	ĵů .		101 4	.s. 102	0.	0. 400 . 4 98 . 98	3 92	ų 4	.2 80.		.7 112.		12.2		
			50. 60			-	. 🕳 .	מו א	94	4.4 0.5 to1	201 5	5	73 eri	102	500	5	97.4 99		5.5 89		1.3 71 4.9 66	112.1 112	TEST DATE LOCATION	JINT 3		
		:	40. 5							100.2 100.	•							- 1				110.6 112		TEST POINT 0213		
				78 00 00 00 00 00 00	100 125 160	- 1								1	200	,	12500	1		50000 7		DASPL 11		MODEL 0200	239	

																								- 42
02/15/80 9.180								0	RIC	GIN/ POC	AL OR	PA(QU/	ge Ali	IS TY							- YES		-JET SPEED EC (O. FPS)	
02/	U			PWL		149.6	153	155	156	156	155	153.7					148.9 149.1	148.6 149.1	120	167.2	88	7AMB 54.50 RELHUM 61.80	FREE-JET EL O. M/SEC (
	40.0 FT. ARC	X02130	DEGREES	140. 150. 160.		2.0 117.7 115.1	119.8 115 121.1 116	121.9 116 122.8 118	123.5 118	123.7 11	119.8 113	716.6 110 114.9 108	113.3 107	111.7 106		103.9 99 100.2 96	.a m	.6 82.	75.3 70	1.2 132.6		IALPHA SB59 PAMB 29.4000	E 49 SQ IN) - MODEL	
	H. STD. DAY, SB	FJ-ZER-FMODL	FROM INLET,	120. 130. 1		100.6 107.4	102.4 110.0	105.0 115.6 107.4 116.7	108.9 117.0	111.1 116.6	112.5 117.3	112.8 117.2	111.3 116.7	110.9 114.0	107.1 111.4 106.1 110.3	103.8 106.9 101.6 103.2	98.5 102.9 94.9 98.5	90.0 94.4 86.8 89.6	82.0 84.6	122.8 128.5 13	VELOCITY (FT/SEC) JET DIAMETER (IN)	N312 IAL ADH189 P	.7 SQ CM (21.49	400
	TANSFURMED MUDEL	IDENTIFICATION -	ANGLES MEASURED	90. 100. 110.		95.5	r 0	9 99.8	6 100.3	3 103.2 168.6	0 103.5		3 105.2	6 104.2 107.1	0 101.7	5 99.1 8 95.9	9 92.6	.2 83.3 .6 78.0	70.3		FREE JET VELOC FREE JET D	TAPE NO.	3E FT) ARC 138	
	FLIGH: 59.0 DEG. F.	IDE		70. 80. 9		0.16	93.3	94.2	97.3	102.2	9.08	200	102.7	101.3 103.1 104.1 100.9 103.2 105.	101.7	97.7	91.9 90.2		68.1	6 113.7	ALE FACTOR C. 1.000	03-23-78 C41 ANECH CH	ACQUSTIC RANGE	
				50. 60.		9.00 E	91.2 92.0	92.5 93.5	94.4 96.2	101.3 102.3	100.5 100.5	100.3 105.1	102.6 103.1	100.6 101.2 99.7 101.6	97.4 99.0	93.1 94.4 90.0 91.3	85.6 89.2 80.8 84.4	76.6 77.2	64.9 66.0	112.1 112.7	MODEL/FULL SIZE SCALE INPUT 1.000 CALC.	TEST DATE LOCATION	TEST POINT 0213 12	
240				40.	08 08 0 8 0 0	125 160 200 250 A5 5	89	90 6	95	36.8	66	102	100	8000 98.0	92	8 8 8	81 76	70		0ASPL 110.6	MODEL/F INPUT		MODEL TES 0200	· · · · · · · · · · · · · · · · · · ·

02/15/80 9.180								ORIO OF I	INAL OOR	PAQU	GE I	S Y					JET SPEED C (O. FPS)	
02/	LS				J.A.	2.3 3.7 5.7	174.5 174.9 174.5	1.9 0.9	6.2 6.6 4.6	8.2	7.4 16.6 17.1	167.2 166.8 167.2 169.0			15, 2	TAMB 54.50 RELHUM 61.80	FREE-JET O. M/SEC (
	SOUND PRESSURE LEVELS	} :				I	90.9 17 89.6 17 87.7 17	3	,	J)			98.8 98.6 98.6		- FULL	
	NO PRESS		X02131	EES		f	4 99.5 2 99.6 7 98.3 94.9	ĺ	1	- 1		(1.9 108.0 1.9 109.1 1.9 109.1 SHIFT -9	A SB59 B 29:4000	SQ IN)	
	ATED SOU			ET, DEGREE	30. 140.	∞ ∞ ∽	97.6 99.4 96.5 100.2 96.6 100.0	புறைப	0 00 00	ဖြ	6 4 -	0.00 0			9 112 9 112 JENCY	IALPHA	S12E (1400.00	
	EXTRAPOLATED	: :	FJ-ZER-FMODL	FROM INLET	120. 1	000-	92.0 993.0	6 - R	- w m	718	6 6 6	ထားက			102.8 108.8 108.8	N312 ADH189	2 SQ CM	-
	D. AND		- NOI	MEASURED	140.	80 80 80 A	8. 88 88 88 88 88 88 88 88 88 88 88 88 8	888	86 86 86	833	73	.6 57.6 .0 40.9 .5 15.5			.8 99.2 .2 106.2 .2 106.2	E NO.	9032	
	ED, SCALE	•	IDENTIFICAT	ANGLES M	90. 100	4 82	883.1 84. 855.6 85.	2 86 0 85	2 85 9 85 8 85	9 83	9 78	7 57 7 43 3 19			3 96 8 104 0 104 RATI	TAP AERO.	JGE) FT) SL	
	HT TRANSFORMED, S		21		80.	n n o o	88 89 89 80 90 90 90 90 90 90 90 90 90 90 90 90 90	044	m - 4 w	0	ω 4 Γ	0 m -			94.5 96. 103.0 104. 104.2 106. DIAMETER	-23-78 I ANECH CH	ACOUSTIC RANGE 5 M (2400.0 F	
	FLIGHT T	n n			. 70.	73.	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 8 8	83. 84. 80.	79.	68.	53. 11.			5 93.0 8 100.4 8 100.9	03	AC0U	
				-	50. 60	73.	80.5 82. 81.1 83. 77.3 80.	8 8 1.	79.	77.	66.	30.6			4 4 98. 4 98.	TEST DATE	INT	
					.0 .e	0000	75.5 81 76.6 77		က ထ က	0 0	ហេត	m -			87.5 90 92.4 96 93.5 96		TEST P0 0213	
					EDEO	1	i i	1		- 1		6300 8000 8000 8000	12500 16000 20000 25000	31500 40000 50000 63000 80000	OASPL PNL PNLT		MODEL 0200	241

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9.180								OF	PO	JK	Ų	JAL	ITY									SPEED 296.0 FPS)	
02/15/80													٠								48.38 79.70	FREE-JET	
FOR BACKGROUND WOISE	7. ARC 10 30		160.				<u> </u>		109.2 152.0 106.7 152.3 105.3 152.2	- 1		1	-		1	1			69.8 143.8 62.3 145.0	120.1 164.3	TAMB RELHUM	- MODEL 90	
CTED FOR BACK	SB 40.0 FT. FMODL XO2140 FMODL XO5230	DEGREES	140. 150.				109.3 116.0	113.7 118.8 116.5 119.4	117.3 119.3 117.9 119.0 118.2 117.9	119.0 117.7	119.0 116.0	117.9 113.8	115.7 111.4	112.3 107.9 111.5 106.9	109.5 106.0 108.0 104.4	105.5 102.4 103.2 99.9	99.7 95.9 96.8 91.2	92.4 86.2 88.1 80.4	82.0 74.0 76.1 65.4	128.9 128.7	IALPHA 5859 PAMB 29.4300	SIZE 21.49 SQ IN)	
LEVELS CORRECTED	H. STD. DAY, SB FJ-300-FMODL ROUND FJB300-FMODL	FROM INLET,	120. 130.				96.8	100.2 101.5	103.6 113.2 106.1 114.5 107.7 114.5	107.8	10.2	110.8	110.4 109.8	110.3 109.6	108.7	105.4 102.8	99.8	91.7	82.6 77.0	120.9 126.5	N312 ADH204	.7 SQ CM (
SOUND PRESSURE LI	2 '	ANGLES MEASURED	100. 110.				92.5 92.6	93.1	95.5 98.9 97.0 100.4 98.6 101.8	4.66	8.66	101.5	102.0 102.6	103.0 103.0	102.4	99.7 96.9	93.6 90.0	85.1 80.4	74.3	113.1 116.2	TAPE NO. AERO. RDG.	r) ARC 138	
MODEL	EG. F., DENTIFIC	ANG	80. 90.				88.0 89.6	90.3 90.7	92.5 94.6 93.5 95.4 94.6 96.7	96.7	95.8	97.2 97.7	99.0 100.4	101.4 100.6	100.6 99.8	99.8 98.1	95.1 89.8	88.6 79.9	72.3	5 110.8 112.4	03-23-78 C41 ANECH CH	ACOUSTIC RANGE 2 M (40.0 FT)	
UNTRANSFORMED	59.		60. 70.				86.6 87 86.9 87	88.7 87 90.3 89	90.9 90.7	96.1 95	95.0 94	97.3 95 98.1 98	101.4 98	99.7 100	98.9 99 97.1 98	96.0 97 92.6 94	89.7 89 86.8 88	82.0 83 75.5 77	69.5 70 63.0 65	109.8 109.	TEST DATE 03-2 LOCATION C41	12.	
			40. 50.				82.5 87	86.4 86.4	91.1 89	91.3 94	93.5 93	95.1 96 98.6 98	99.8 100 98.0 99	96.6 97	95.1 97	90.6 93 85.7 90	83.9 87 81.8 83	77.8 78	65.4 69 59.8 61	107.3 108.4	TES	TEST F	
242				FREQ 50	80	5 t t 5 6	250 315	4 6	630 800	1250	2002	2500 3150	5000 5000 5000	6300	12500	2000	25000 31500	50000	90000 800000	DASPL		MODEL	3

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URE LEVELS 40.0 FT. ARC X02140	ES	150. 160. PWL		113.8 111.0	1 116.5 111.8 148.2 1 118.5 112.9 150.6 1 119.6 112.8 151.7 1 120.3 112.4 152.5	120.0 112.8 119.8 111.7 119.3 111.3	116.2	111,2 107.1 110.4 106.5 109.7 105.4	106.9 103.9 105.1 102.4 102.5 103.0	93.8 95.0 1 87.9 87.9 1 82.5 83.4 1 75.4 77.4 1	5 65.5 67.5 144.5 5 129.5 123.1 164.8	.00 REFRACTION CORRECTION - YES .00 TURBULANCE CORRECTION - YES	A SB59 TAMB 48.38 3 29.4300 RELHUM 79.70	FREE-JET SPEED SQ IN) - MODEL 90.22 M/SEC (296.0	•
MODEL SOUND PRESS R.H. STD. DAY, SB - FJ-300-FMODL	S MEASURED FROM INLET, DEGREES	100. 110. 120. 130. 140.		.0 92.2 96.5 103.4 107.3	3 98.4 108.7 100.2 110.6 111.	99.0 107.0 113.7 1.17 100.3 107.0 113.5 118 101.7 108.4 113.8 119	102.1 109.6 114.9 1 103.5 109.6 115.9 1 104.0 110.5 115.3 1 105.2 110.4 115.0 1	105.0 110.1 115.5 105.5 111.2 114.7 105.8 110.1 114.1	106.2 108.9 111.5 104.1 107.6 111.1 103.2 105.8 107.9 100.4 103.1	2 81.2 89.1 88.3 88. 1 74.5 84.9 85.3 83.	.2 68.5 75.1 75.5 .9 115.9 121.3 126.2 1	JET VELDCITY (FT/SEC) 296.00 FREE JET DIAMETER (IN) 48.00	TAPE MO. N312 IALPHA Ro. Rdg. Adh204 Pamb	ARC 138.7 SQ CM (21.49	
FLIGHT TRANSFORMED 59.0 DEG. F., 70 PERCENT IDENTIFICATION	ANGLES	60. 70. 80. 90. 10		24 C C C C C C C C C C C C C C C C C C C	89.0 90.8 92.0 90.2 91.7 92.3 92.0 93.0	94,7 94,9 95,7 95,6 95,9 97,1 98,0 98,3 99,2	97.7 98.5 99.7 97.5 97.6 98.9 98.6 99.0 100.4 100.4 99.4 100.9	100.9 100.9 101.8 103.8 102.9 103.0 103.9 104.4 104.8 103.1 104.0 105.3	103.2 104.2 105.5 103.1 103.9 104.0 102.2 103.8 104.0 99.0 102.1 101.9	π. π. φ. 4	69.9 68.6 70.3 113.1 113.8 114.4	ZE SCALE FACTOR FREE CALC. 1.000	TEST DATE 03-23-78 TAP LOCATION C41 ANECH CH AERO.	ACDUSTIC RANGE 12.2 M (40.0 FT) AR	
		40. 50. FREQ	50 63 60 60 60 60 60 60 60 60 60 60 60 60 60	0 0 7	87.9 91.4 89.9 90.8 91.9 91.8	92.3 93.8 96.5 93.9 97.7 96.1	96.8 99.0 98.1 97.1 98.7 98.2 99.8 100.5	102.1 101.7 103.7 103.7 102.5 103.9 101.7 102.6	99.8 101.4 98.5 100.4 96.4 98.3	25000 90.9 95.0 31500 88.2 91.6 40000 85.4 86.2 50000 73.1 75.1	64.2 67.5	MODEL/FULL SI	TEST	MODEL TEST POINT 0200 0214	243

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9.180																																			ED FPS)		
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D PRESSURE	SB 2400,0 FT.	X02141	ES	150. 160	95.0 86	0.96	96.7 96.3	96.0	95.2 93.8	93.0	87.8	86.0 75.1	20.00	80.9	78.9	72.5	67.1		24.9	_	`								104.9 94	105.9 96		SHIFI -9	SB59 29.4300		SQ IN) - F		
MATED SOUN	DAY, SB 2		INLET, DEGREES	130. 140.				1		- 1		93.7 91.0				1			1		6.0								105.0 106.2	110.5 109.3		FREQUENCY SP	IALPHA		SIZE 4 (1400.00	100	in The
AND EXTRAPE	PERCENT R.H. STD. DAY.	- FJ-300-FMODL	S MEASURED FROM IN	110. 120.	1			1		- 1		85.5 89.7				1			1		1								101.0	104.1 107.9		.070	O. N312 G. ADH204		9032.2 SO CM		
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T 1497 13	59.0			60. 70.	8 72.	6 74.	75.1 75.2 75.7 76.6	77 6	97 67 87	7 78	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	80.3 81.3	83	8 6 6 6	7 82	8 1	77 0	17 7	7 56	33	6								92.5 93.1	100.8 102.0	•	-	03-:	;	ACOU 731.5 M		
				. 50.	71.0	6 72.0	5 72.6 73.9	9 73.9	9 76.0 8 78.6	7 76.5	77.3	80.0	81.6	6 79.7	2 79.5	0 76.1	1 72.7	2 66.9	7 45.9	26.2									8 90.3	7 97 9 10			TEST DATE		TEST POINT 0214		.
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GAIDAGOUD STANAT BONDSSOO WENS	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SR 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-400-FNOOL X02150 BACKSROUND FJB460-FNOOL X05220	ANGLES MEASURED FROM INLET, DEGREES	50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160.					85,7 86,8 87,1 89,3 91,2 93,8 96,3 102,9 108,3 14,7 111,6 1	85.1 85.4 85.5 90.6 91.5 93.4 97.9 105.5 109.9 116.3 111.7 187.7 87.2 85.5 90.9 91.8 93.9 98.9 109.3 112.9 117.3 109.8 1	29.0 22.3 29.9 92.2 93.4 95.0 100.5 111.4 115.0 116.9 107.6	30,1 83,1 91,2 93,6 94,7 97,9 103,4 112,2 116,5 116,3 104,7 1	91.7 92.0 93.6 96.0 97.6 100.8 107.2 113.6 116.4	94.8 93.8 94.9 97.2 98.7 102.1 107.5 113.5 117.3 112.7 100.9	93,2 93,7 95,8 98,2 99,8 103,2 107,9 113,3 117,5 113,0 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 100,5 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N312 IALPHA \$859 TAMB 56.66	CA1 AMECH CH AERO, ROG, AMEZOS PARS 29,4600 HELFILM	18 3	72.2 H (40.0 F1) ARU 100.1 39 CH (21.12 34 M)		
				40.	FREG	n 0	82	2 8 8	82.7	# 6 # 6	20 CE CE CE CE CE CE CE CE CE CE CE CE CE	85.3	6.00	90°	31.8	9,7,69	93.5	69	96.0	- 20	92.0	80 m	84.2	0,0	72.5	53000 68.2 7 80000 62.7 69	0ASPL 105.8 107			TEST	0200 0215	245	

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02/15/80 9.180	•				•															- YES - YES		-JET SPEED EC (396.0 FPS)	
05/																				CORRECTION CORRECTION	56.66 70.30	FREE - JI 120. 70 M/SEC	
	U			PWL		671	146.4	149.5	150.9	151.4	152.1	151.4	150.9 150.9	150.4	150.2	149.6 149.0	148.8	148.7	164.2	CTION	TAMB		
	FT. ARC			160.	•	90	•	109.7	111.3	111.2	112.9	111.5	109.6 108.9	108 108	108	105	99.8 94.1	90.1	_	REFRACTION TURBULANCE		- MODEL	
EVE	40.0 FF	150	S	150.		0	114		115	116.	146. 16.	114.4	= =		108		l	78	127.	ł	SB59 29.4300	SQ IN)	
2000	SB	X02150	DEGREES	140.	: .	S. S. S. S. S. S. S. S. S. S. S. S. S. S							l	109.8 108.0	107.3		1	83.4		396.00 48.00	IALPHA PAMB	SiZE 21.49	
	STD. DAY, SB	-FMODL	INLET,	130.	-	6	- T		112.6			114.7	114.4	112.1	5 5	105 102	96	8 9	, 2	r/SEC)) No	West.
į.	1. STD	FJ-400-FM0DL	FROM	120.		4 70	96.7	101.8	106.4	107.3 109.2	109.1 110.8	110.6	110.7	109.8	107.5	104.3	98.1 94.6	91.6		VELOCITY (FT/ Jet Diameter	N312 ADH205	.7 S0 (,
2	NT R.H.	TION -	EASURED	110.	:	6	• • •	93.4	97.8 99.0	100.4	102.6 103.7	105.2 105.9	106.4	105.4	103.8	4.001	93.3 89.9	77.6	115.7	VELOCI JET DI	RDG.	138	
	, 70 PERCENT	FICATI	Ξ	0		0	1	92.7	95.2	98.1 99.5	99.5 100.9	102.4 102.9	103.3	103.5	102.5	98.9	92.5	83.8	113.6	E JET FREE	TAPE AERO.	ARC	
, ,	F. 70	IDENTIFICA	ANGLES	90.		0	90.8	92.6	95.4	98.1	98.7 99.9	101.5 101.6	103.5	105.4	103.9	102.1 98.8	94.0 92.2	78.2	114.4	FREE	동	ACOUSTIC RANGE 2 M (40.0 FT)	
i	PEIGHI DEG. F.			80.		0	800	91.7 93.2	94.5	97.2 98.2	97.2 98.7	99.6 100.3	103.3	104.3	103.8	101.7	93.6 93.6	78.0	113.6	FACTOR 1.000	I	STIC R (40	
	59.0			6		i e	1		1		,		1		1		1	86.2 79.8		FA .	03-23-78 C41 ANEC	ACOU	
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246				FREO	5 63 63				i				5000		12500	•	ļ	50000 63000		_ <u> </u> _		MODEL 0200	

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02/15/80 9.180				٠	7.	4 •	0	4 IV	2	·	0	O. R	C)F	P		2		A	: ES				the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	8			MB 56.66 JM 70.30	FREE-JET SPEED 120.70 M/SEC (396.0 FPS)	
	SURE LEVELS			160. PWL	83.6 16 82 8 16	83.0	84.0	83.5 84.5	84.0	80.9	79.0	75.0		65.2	58.8	30.2	2.6	166.6	164.							96.6	ნ	TAMB	- FULL	
	AND EXTRAPOLATED SOUND PRESSURE L R.H. STD. DAY, SB 2400.0 FT. SL	X02151	DEGREES	140. 150.	1	94.2 93.5						l		i			1	1.12								108.0 104.8 108.0 104.8	SHIFT	ALPHA SB59 PAMB 29.4300	SIZE 1400.00 SQ IN)	
	TRAPOLATED STD. DAY,	FJ-400-FMODL	INLET,	120. 130.	1	85.4 91.9	1		1			1		- 1			l								104.2	107.9 110.1	FREQUENCY	N312 I/ADH205	SQ CM, (1400	
-	SCALED, AND EX	CATION - FU-	MEASURED FROM	. 110.	74.1		80.8	82.1 83.2	83.9	85.9	86.4 86.6	85.4	. 4.0 - 6.0	83.0 4.18	78.7	72.7	58.0	45.6 45.6							9 20 9	.6 103.7 10 .6 103.7 10	8.070	E NO.	9032.2	
	-12	IDENTIFICA	ANGLES M	90. 100	7 73	76.5 76.	0 79	3 80	6 81	9 83	3 83	6 84	983	8 82	5 78	9 73	58 6	9.0							94	105.5 102.	DIAMETER RATIO	TAP CH AERO.	NANGE O.O FT) SL	
	GHT TRANSFORMED 59.0 DEG. F.,			70. 80.	8 72	73.7 75.5	5 78.	.3 79.	9 79.	3 6 3 6	.3 83.	7 84.	2.7.	7 83	3 80.	3 68	4 63.	8 19.							- 76	102.1 103.7		03-23-78 C41 ANECH C	ACOUSTIC RANGE	
	FL IGHT			0. 60.	.4 72.3	5 75.2	5 77.0	9 80.7	5 78.9	.79.0 .0 80.8	.8 80.3 83.8	84.9	3 82.0	2 80.0	1 77.4	0 72.0	.5 54.0	10.1							0.69	- 2		TEST DATE C	INT 731.	
				40. 50	- 0	72.0 73.	.3 75	.1 78	.0 77	.1 80	æ , ø	5 82	4. 81	5 78	6 74	.0 5 69	0	N							9 91			4	TEST POINT 0215	
•				FRED	50	888	125	160	250	2 P	900	800	1250	2000	2500	3150	2000	8000	10000	12500	20000	31500	50000 50000	63000	80000	PNL			MODEL 0200	247

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02/15/80 SE																	•		54.50 61.80	FREE-JET 8		
FOR BACKGROUND NOISE 40.0 FT. ARC	X02160 000000). 160.			117.4	117.5	118.2	117.3	114.7	111.9	108.7	105.7	.6 105.2 153.2 .3 103.3 152.3 .1 102.0 152.5 .9 99.3 151.8	97.4	88.0	76.7.	.8 127.5 169.0	SB59 TAMB 29.4000 RELHUM	. MODEL .		
CORRECTED FOR B	FJ-ZER-FM0DL XC	٥	130. 140. 150			113.8	118.7	122.3	122.2	122.2	119.4	116.5	113.5	116.5 111.6 110.6 114.6 109.9 108.3 113.8 108.3 106.1	102.0	96.5 96.5	86.5 82.8	4 132.0 132	IALPHA SB! PAMB 29	SIZE (21.49 SQ IN)		· Aug
EVELS STD.	MODEL FJ-7 BACKGROUND 0000	RED FROM INLET,	110. 120. 13			9 101.8		2 110.1	8 113.5	114.9	9 115.8	3 115.4	114.8	112.6 110.6 109.1	1 105.4	4 101.5 8 98.7 4 95.0	5 91.1 2 85.7	121.2 126.1 132	ND. N312 RDG. ADH190	138.7 SQ CM	,	
SOUND PRESSURE L 70 PERCENT R.H.	Z	ANGLES MEASURED	90. 100.			2 97.2	3 99.7	9 101.0	7 103.6	9 106.1 7 105.6	6 106.5	9 106.6	8 107.8 8 107.6	.8 106.7 .6 105.3 .5 103.7	5 97.9	4 94.4 6 89.8 85.8	8 80.5	.6 118.0	TAPE ! AERO. RI	SE FT) ARC		
UNTRANSFORMED MODEL 59.0 DEG. F.,	IDENTIFICATIO	•	. 80.			1 92.7 5 94 6	7 94.6	7 97.8	5 101.4	7 102.3	9 103.5	105	3 104.9	.2 104.9 .2 104.2 .2 103.8	5 99.7 1	4 6 6	6 77.3	.6 115.9 117	-23-78 1 ANECH CH	ACDUSTIC RANGE .2 M (40.0 FT)		· · · · · · · · · · · · · · · · · · ·
UNTRANSFO			. 60. 70			92.6 92	93.7 92 93.7 92	96.4 95	103.5 101	100.9 101	103.8 102	103.6 104	103.7 103	4 103.0 103 1 101.0 102 9 100.5 101	94.3		1 74.4 9 69.5	2 114.9 114	TEST DATE 03-: LOCATION C41	12		
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02/15/80 9.180																						i I											Co	8 .	RREE-JET SPEED M/SEC (O. FPS)	
	LEVELS) 	173.1	174.0	75.2	75.8	176.0	175.8 175.2	175.0	74.2	172.6	72.2	4.17	70.4	170.6	69.0	169.3	170.1	8.69	171.7		•						187.0			2	RELHUM 61.	ó	
	JRE LEV			160.	-	۲.	9 0	၁တ	4	86.5 83.6	2	N C	9 (9)	0,	- œ	, R	- 1	ه ره	າເດ			- 🕶								98.9	99.4		1	1	- FULL	
	SOUND PRESSURE	19	S	150.	9.66	99.4	99.7	99.8	98.3	96.8 94.4	92.7	6. 8. 6. 8.	86.4	84.9	82.78 2.12	77.4	73.5	80.00	46.3	28.3										108.1	108.6	FT -9	CRSO	29.4000	SQ IN)	
	SOUND SB 24	X02161	DEGREES	140.	97.4	99.2	0.5	100.0	101.0	100.2 98.4	96.6	94.6	91.4	89.4	א מ מ מ מ	83.4	80.8	76.2	61.6	47.9	25.8		•							109.8		SHI	AH DHA	PAMB	SIZE (1400.00 S	
	SCALED, AND EXTRAPOLATED TO PERCENT R. 1. STD. DAY,	FMODL	INLET,	130.	1	98. 1		- 1		102.1	1						1			1									: :-	111.5	117.0	FREQUENCY	-		S CM (140	
	EXTRA	FJ-ZER-FMODL	FROM	120.	1			1		95.7	1			ł			1			1										106.0			Nata	ADH 190	.2 50	
	D. AND	CATION -	S MEASURED FROM INLET	110.	1			1		90.5]			1			1										101.7		8.070	5	RDG.	9032	
	SCALE	31	ANGLES ME	100		82				0 88.0 6 87.4									_											•	106.8	RATIO	TABE	AERO.	.) St	
	TRANSFORMED, O DEG. F., 7	IDENTIF	AN	. 90	79.	8	8 8	85.	87.	3 87.0 1 85.6	86.	86.	87.	88	. 78		85.	80 6	2 70.6	63.	47.									7 98.6	• •	AMETER		CH	C RANGE 400.0 FT)	
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02/15/80 9.180									•		OF		INA OOI		PA(QU/							FREE-JET SPEED 2 M/SEC (296.0 FPS)		
SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 70 DEBCENT R.H. STD. DAY. SB 40.0 FT. ARC	ICATION - MODEL FJ-300-FMODL BACKGROUND FJB300-FMODL	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.	F R E Q 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	100 125 160 200	88.4 88.7 88.7 91.3 93.9 94.1 96.2 100.7 108.7 112.6 119.6 115.7	88.7 89.7 90.7 89.7 91.3 94.0 94.6 96.7 101.7 111.8 116.2 120.8 115.0 188.7 90.3 92.0 91.6 92.9 94.8 96.2 97.8 103.5 114.9 118.0 121.4 113.6	89.8 91.4 92.6 92.4 94.3 96.4 97.0 100.2 106.1 116.5 120.3 121.8 111 93.8 92.9 93.9 94.2 94.8 97.1 98.8 102.4 107.9 118.2 121.1 121.0 109	95.9 96.0 97.2 96.3 96.9 99.2 100.4 104.0 110.2 119.3 120.9 119.9 108.0 94.8 97.8 99.6 19.7 100.4 101.6 101.4 105.1 111.1 119.6 122.0 119.2 107.1	96.1 96.4 97.9 98.0 99.8 102.4 103.3 106.2 112.2 120.5 121.7 118.7 106.5	101.8 102.4 101.8 99.9 100.2 102.1 103.2 107.4 113.3 122.2 119.6 116.1 105.6	100.4 100.9 103.2 102.7 103.3 104.1 103.8 108.2 113.7 118.8 116.9 113.4 102.2	100.0 100.3 101.8 102.3 103.4 105.0 104.9 109.1 113.1 118.9 115.0 112.0 101.5 99.6 100.7 101.9 100.9 102.2 105.8 105.2 108.4 110.5 117.5 114.1 110.4 100.6 1	98.7 100.8 101.7 100.8 102.6 104.8 103.0 107.9 112.1 116.0 113.0 105.7 33.7 98.4 99.4 101.2 101.0 102.9 104.8 103.7 107.5 111.0 115.9 111.3 107.8 98.2	97.5 99.4 100.4 102.4 103.5 102.2 106.4 109.3 113.0 108.8 106.0 96.7 3 as 0 as 6 as 8 101.4 103.1 101.6 105.0 107.4 112.1 106.9 103.9 95.6	88.8 93.3 94.9 96.0 100.4 101.5 98.9 101.9 105.4 109.1 104.3 101.5 93.9	87.4 90.4 91.9 92.7 97.1 98.5 95.3 96.5 103.3 105.3 101.2 97.2 91.9 pr. p. pr. p. pr. p. pr. p. pr. p. pr. p. pr. p. pr. p. pr. pr	80.2 80.4 84.3 85.7 90.4 91.1 87.2 89.5 94.5 99.3 93.9 87.5 82.0	67.8 70.2 71.0 72.7 74.0 75.0 76.7 76.1 86.4 88.6 82.6 75.1 70.9 147 61.9 63.4 64.5 67.7 66.8 69.3 68.9 70.0 81.2 84.7 77.3 67.0 62.9 149	0ASPL 110.3 111.2 112.5 112.1 113.4 115.2 115.1 118.8 123.7 130.9 130.9 130.6 122.7 167.1	TEST DATE 03-23-78 TAPE NO. N312 IALPHA SB59 TAMB 48.20 LOCATION C41 ANECH CH AERO. RDG. ADH203 PAMB 29.4300 RELHUM 76.40	ACDUSTIC RANGE 12.2 M (40.0 FT) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL 90.22	251	

25 2									<u>.</u>			02/15/80	9.330		
		29.0 D	PLIGHT 1 DEG. F.,	TRANSFOR 70 PERC	PERCENT R.H.	1. STD.	STD. DAY, SB		40.0 FT.	ARC					
			IDE	IDENTIFICAL	ICATION - F	FJ-300-FMODL	MODL	X02170	•						
			A	ANGLES ME	S MEASURED	FROM INLET		DEGREES							
40. 50.	·. •	.02	80. 90	5. 100.	110.	120.	130.	140. 1	150.	160.	PWL				
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MODEL/FULL SI INPUT 1.000	SIZE SCALE	LE FACTOR 1.000		FREE JET FREE	VEL	DCITY (FT/SEC) DIAMETER (IN)	1	296.00 48.00	≅ ≓	REFRACTION TURBULANCE	ION CORRECTION NCE CORRECTION	TION - YES			
TEST	TEST DATE	03-23-78 C41 ANECH	8 CH CH	TAPE AERO.	PE NO.	N312 ADH203		IALPHA S	SB59 29.4300	1	TAMB 48.20 RELHUM 76.40	c o			
				;									27		
MODEL TEST POINT 0200 0217	12		ACOUSTIC RANGE 2 M (40.0 F	FT) ARC	138	.7 SQ CM	, .	SIZE 21.49 SQ	IN)	MODEL	90.22	FREE-JET SP 2 M/SEC (29	SPEED 296.0 FPS)		
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	. 180													RIC	SIN PO(AL OR	. P.	AGE UA	is ity	•						FPS)	
	02/15/80 9.								•								•								48.20 76.40	FREE-JET SPEED	
		E LEVELS SL			3	170.5	173.3	173.7	173.5	172.8	172.1	171.5	170.6	170.2	169.8 169.2	168.8	168.9 167.9	169. † 166. 6				185.4			TAMB	06	
		URE LE			160.	88.2 88.6	88.6 88.3	87.1 86.1	84.3 83.6	81.6	77.5	74.5	69.3	62.1	55.8 43.0	24.6						96.6	96.8	G	59 7.4300 F	- FULL	
		SOUND PRESSURE SB 2400.0 FT.	171	S	150.	96.9 98.5	98.6 98.1	97.1	94.4	91.8	88.0	4.0	80.4	73.8	67.4 58.3	45.4	25.7					90	107.0	FT -	SB59 29.4	SQ IN)	
		SB 2	X0217	DEGREE	140.	94.7		į.		1		1		- 1		- 1		- 1					110.5	NCY SHI	IALPHA PAMB	S1ZE 1400.00	
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		TRANSFORMED O DEG. F.,			80.	75.	78.	80.	83.4	833.	89.0	85.	86.	86.	833.	71.	64. 45.	<u>6</u>			-	96	106.2	014	3-78 ANECH	USTIC RANGE	
		FLIGHT 59.			70.	74.	76.	80.	82.2	833.	8 8	84	84.	82	79.	69,	58.	ឆ្ម				95.	104.2		03-2	ACOU	
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					6	70.6	72.9	76.6	78.3	79.5	81.9	80.6	79.6	73.8	70.2	52.9	16.8					-	98.7			MODEL TES 0200	

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S9.0 DEG. F.	70	PERCENT R.H. STO.	DAY, SB	40.0 FT. ARC	15121		
IDENTIFICATI	NO NO	MODEL BACKGROUND	FJ-400-FMDDL FJB400-FMDDL	X02180 X05220			
	ANGLES MEA	MEASURED FROM	INLET, DEGREE	v			
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23-78 ANECH CH	TAPE	NO.		39 4300	TAMB 52.88		
OUSTIC	ARC	138.7 50	SIZE M (21.49	IN) - MO	120.70	-JET SPEED EC (396.0 FPS)	
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BOYE MOREX

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				•			IDENTIF		ICATION -		FJ-400-FMODL		X02180										
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			TEST	TEST DATE LOCATION	- 1	03-23-78 C41 ANECH	₹	TAP AERO.	TAPE NO.	N312 ADH202	2 202	IALPHA PAMB	1	SB59 29.4300	æ	TAMB	52.88 73.10						1
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2	MODEL 0200	TEST 02	TEST POINT 0218		ACDI 12.2 M	ACOUSTIC RANGE 2 M (40.0 F	RANGE O.O FI	iE FT) ARC	<u>5</u>	ि. 7 SQ) WO O	SIZE (21.4	05 6	IN) -	MODEL	120	FREE-JET 120.70 M/SEC (SPEED 396.0 FI	FPS)		•	
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T. ARC	96 00		160.					101			112.7	111.8	10.6	10.01	110.1		107.6	106.3	105.5	101.8	99.3		87.0	76.2	0.60	122.7	59	1	- MODE	<9><4><4><4><4><4><4><4><4><4><4><4><4><4>		
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RATIO 8.070 FREQUENCY SHIFT	.3 93,6 97,7 99,8 98.8 100.4 102,7 104.0 103,9 103,9	
	RATIO 8.070 FREQUENCY SHIFT	
	כיייבים אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון אינון	
LUCATION CAT AMECH CH AERU, NOG, AUTTED 757-7007 RELIES 45.50	ACOUSTIC RANGE S12E S12E S12E S12E S12E S12E S12E S12	FREE-JET SPEED 0. M/SEC (0. FPS)

₹ 3 3 3 3 3 3 3 3 3 3	9.180							· · · · · · · · · · · · · · · · · · ·	ORIG OF	N PO	AL OR	P)	ige Vali	is TY	,							-		FPS)		
17 14 15 15 15 15 15 15 15 15 15 15 15 15 15	02/15/80									O. T. T. T. T. T. T. T. T. T. T. T. T. T.													50.72 68.60	FREE-JET SPEED 90.22 M/SEC (296.0		
1957 2. 3334 A		FOR BACKGROUND NOISE 40.0 FT. ARC	200		160.	i i		106.4 141.2	105.0 142.5 105.8 144.4 102 6 144 7	-	96.4	91.9	91.5	91. 1.	92.1	92.5	91.3			76.4 138.1	-	112.3 156.3	59 TAMB .4300 RELHUM	- MODEL 9:		
			-FMUDL X02200 -FWODL X05230	DEGREES	140. 150.		•	103.5 1	108.2 112	109.8 111	108.2	108.8	107.1 102.6	106.4	105.4	105.0	101.4	99.0 98 95.7 95	91.3 91 88.7 85		70.5 68 64.5 60	119.7 120.2	IALPHA S859 PAMB 29.43	SIZE 21.49 SO IN)	33095	
		E LEVELS CORRECTED. H. SID. DAY, SB	MODEL FJ-300-FMODL BACKGROUND FJB300-FMODL) FROM INLET,	. 120. 130.			91.8	95.2	98.9	102.5	102	5 103.5 107.3 5 103.1 107.9	103.8	102.6 102.8	102.4	98. 6. 6.	97.8 95.5	92.7	84.2	74.1	114.2 118.7	N312 ADH207	138.7 SO CM (- KA.
* 1		SOUND PRESSURE L 70 PERCENT R.H.	ICATION - MODEL BACK	SLES MEASURED	. 100. 110.			87.4	88.3 88.3 8.0 8.0 8.0 8.0	91.0	93.9	95.2	5 95.3 99.5 3 98.7 99.6	96.7	96.9 96.5	96.1	94.3	93.2	87.7	78.9	70.1	6 107.5 110.9	TAPE NO. AERO. ROG.	ARC		
		MODEL EG. F.,	IDENTIFIC	ANGL	. 80. 90.			83.7 85.	85.6 87.	88.8 90.	89.3 91. 90.1 92.	91.9 94.	91.3 93. 92.5 94.	93.0 95.	93.2 95. 93.0 95.	93.1 95.	93.5 94.	93.0 94. 90.8 92.	88.3 89.	81.6 82.	67.4 68. 59.6 62.	104.7 106.	-23-78 I ANECH CH	AČOUSTIC RANGE .2 m (40.0 FT)		
		UNTRANSFURMED 59.0 D	-		60. 70.			82.1 82.	83. 3 83. 84.2 83.	86.4 86.	88.2 88.	89.3 90.	89.5 89.8 90.3 90.1	89.8 91.	90.5 90	92.5 91.	92.8 92.	85.5 87.	82.6 83.	75.7 77.	63,7 66. 56.6 59.	102.3 102.7	FEST DATE 03-2 LOCATION C41	12		
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		bid tanana description description description description description description description description des			40. 50.			78.2 82.	81.9 83. 87.6 83.	80.9 84.	85.6 85.	88 + 88	87.2 87.7 87.3 88.6	88.6 89.	88.5 89. 90.6 89.	92.2 93.	90.2 91. 87.0 89.	84.8 87. 79.2 84.	77.8 80.	71.8 71.	59.9	100.3 101.2	TES? LOC	TEST POINT 0220		eric at ma . I handigaligation of transported word of
	260					FR 60 80 80 80 80 80 80 80 80 80 80 80 80 80	25 25 26 26 26 26 26 26	250	2 4 R	630	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1500	2000 2000 2000	3150	2 000 2 000	0008	12500	2000 2000 70000	25000 31500	4 0 0 0 0 0	63000 80000	OASPL		MODEL 0200	()	Andread way .

											OF	RIG	IN	AL OR		AG JA	E	3							4 - YES		-JET SPEED EC (296.0 FPS)	
			PVL				42.4	43.7	43.8	42.9	42.7	42.1	42.6	42.5	43.2	44.2	44.5	44.0	43.0	41.8	41.0	39.7 39.3	38.0	156.8	TON CORRECTION INCE CORRECTION	TAMB 50.72 RELHUM 68.60	FREE-JET . 90.22 M/SEC (
40.0 FT. ARC	90		150. 160.				110.6 105.6	- 4-	111.3 102.7 1	108.1 100.1 1	106.4 98.6 1		104.0 97.9 1		105.3 99.5 1	•		ł	٠. ا	93.3 93.5 1	85.5	79.1 80.5 1		120.2 174.5 1	OO REFRACTION OO TURBULANCE	S859 29.4300	SO IN) - MODEL	
R.H. STD. DAY, SB	FJ-300-FM0DL X02200	INLET, DEGREES	. 130. 140.				7 98.0 101.5 5 102.5 105.6	7	5 104.8 108.4	4		ດຸດ	3 106.8 106.3		4 6	12	5 106.0 105.7 2 104.5 103.9	1.	. 98 . 96	. 1 93	1 84.3 84.2	.9 78	6 62.9 64.0	4 118.1 118.9	(FT/SEC) 296.00 TER (IN) 48.00	IALPHA 07 PAMB	SIZE CM (21.49	
	FICATION - FJ-300	ES MEASURED FROM INLET). 110. 120			,	7 87 8 93		5 90.4 97.8 3 92.8 99.6	94.5 1	95.0	97.4	1	100.1	99.8	100.3		99.2	97.5	1.1	83.2	76.4	8 64.4 67.	.1 110.5 114.4	VELOCITY JET DIAME	TAPE NO. N312 RO. RDG. ADH207	138.7 50	
G. F., 70 PERCENT	IDENTIFICA	ANGLES N	0. 50. 100.				85.3 86	- ~	90.8	7 91.7	92.8	94.5	94.2	95.2	m 6	97.8	97.8	97.9	3 95.9	3 92.1	N 10	74.4	7 65.2	.5 108.4 108.1	R FREE JET	1 CH AE	C RANGE 40.0 FT) ARC	
59.0 DEG			0. 70. 80				7.88 7.7 27.0	7 85.9	.7 87.8 88.0 1 88 7 90	0 90.3	.6 91.1 91	92.8 93.00	9 92.6 93	.3 93.1 94 .2 94.2 95	7 94.4 94	.6 94.2 96	5 95.5 96 4 97 1 97	7 96.3 97	.3 95.1 97 .7 92.4 94	2 88.1 92	4 82.7 85	3 76.5 78	9 64.9 63	.3 106.3 107	SCALE FACTOR	TE 03-23-78 ON C41 ANECH	ACOUSTIC 12.2 M (4	
			40, 50. 60				9 86.6 85	.1 86.8 86	2 87.6 87	5 89.5 90	.1 90.0 90	0 90.9 91	6 92.1 92	7 92.4 93 8 93.3 94	0 94.1 93	8 94.0 94	.8 94.4 94 6 07 6 06	96.0.96	.2 94.6 95 .6 92.2 92	.3 88.9 89	7 79.8 82	9 74.3 77	7 62.9 62	.6 105.9 106	MODEL/FULL SIZE INPUT 1.000 (TEST DATE LOCATION	TEST POINT 0220	
			-	50 63	8 6	125 160 200	83	9 0	87	88	6	9 9	93	92	6	6	95	6	6 6	84	7.3	74	9	0ASPL 105.6	MOD		MODEL T 0200	

																OR OF		IN PO	AL	. F	PA QU	GE ALI	is TY	,										, S.)
																																		SPEED 296.0 FPS
																																	50.72 68.60	FREE-JET 90.22 M/SEC (
LEVELS				3	161.9	161.9	161.8	161.0	160.8	160.3	160.7	160.6		162.1	162.7	162.3	162.2	161.1	159.9	159.2	157.8	157.5								174.7			TAMB	
	T. SL			160.	77.8	75.8	74.9	72.9	70.0	69.6	69.0	67.4	67.9	0.69		65.4	• 6	51.7		21.4										83.7	85.1			- FULL
PRESS	0.00	01	S	150.	-88.1	87.8	86.8	34.4	82.0	78.9	79.1	77.9	78.6	19.4	78.2	76.1	- C	63.3	52.9	40.4	_			:						94.7	96.3	FT -9	SB59 29.4300	So IN)
SOUND PRESSURE	SB 24	X02201	DEGREE	140.	86.5	87.0	86.8	85.7	85.0	83.9	83.9	83.1	82.2	82.3	80.6	78.3	75.7	67.3	61.0	51.0	12.5									96.1	99.5	SHI	IALPHA PAMB	SIZE (1400.00 S
OLATED	DAY.	FMODL		130.	84.9		86.1	86.5	85.4	85.6	86.2	83.8	84.6	- 84	83.4	81.3	79.7	71.5	67.1	58.	23.4				į			***************************************		96.9	101.8	FREQUENCY	H	S CM (140
SCALED, AND EXTRAPOLATED	. STD.	FJ-300~FMODL	ES MEASURED FROM INLET	120.	76.5	78.8	80.9	82.5	82.2	83.3	82.8	83.0	82.6	83.2	82.3	79.6	78.8	74.5	69.0	61.7	34.0	8.9								94.2			N312 ADH207	2 SO C
AND	Ι. Έ		SURED	110.	71.5	72.4		76.5	78.9	78.7	79.4	80.8	80.2	80.7	80.0	79.2	78.4	73.4	67.8	60.3	33.7	8.8								90.9		8.070	NO.	9032
SCALED	PERCE	FICATION	ES MEA	1 00.	70.1	71.9	72.7	74.1	7,7 4,0 4,9	77.0	76.7	0.87	77.8	78.3	78.2	77.3	76. 1	72.6	68.0	60.0	37.0	14.2								88.9	97.0	AT10	TAPE AERO. 1	-
-1	2	IDENTI	ANGL	90.	70.1	- :	3	4			• •		77.4	•1			-1	75.3		•	33 38 30 30 30				- '					89.2	99.5	~	Ī	ACOUSTIC RANGE 5 M (2400.0 FT)
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- J-10	59.0			70.	67.9	6		• • •	73.0	74.2	• • •	74.9		•	75.0	76.6	75.5	70.7	64.9	6.0	33.7	4.0								•	95.2		03-23-78 C41 ANECH	ACOU
F				.09		69.0	70.4	71.2	71.7	74.8	73.5	73.5	73.3	74.1	73.0	74.8	74.8	73.0	64.1	56.5		4.0								85.5	94.7		TEST DATE LOCATION	73
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				60.	67.9	71.3	71.2	72.0	74.4	73.7	74.4	75.1	74.6	75.2	72.5	7. 7. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	58.0	46.8	3.2								95.0	95.7		TEST DATE	7	
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02/15/80 9.180								•										.94	FREE-JET SPEED M/SEC (0. FPS)	
CKGRQUND NOISE	40.0 FT. ARC XOC.220 XOS.220		160. PWL			111.6 146 112.5 147 113.0 150	113.6 151	114.9 152.0 114.8 151.9	114.2 152	110.4 151 109.1 150	.4 149 .5 149 .1 148	105.4 147	101.3 146 98.8 145	96.6 14	83.5 142	71.5 143	124.5 163.3	TAMB 46 400 RELHUM 80	- MODEL 0.	
	. DAY, SB 40.0 FT. FJ-ZER-FMODL XOC.220 FJB400-FMODL XOS.220	ES	130. 140. 150.			.9 108.5 114 .2 110.4 116 .0 113.2 118	114.7 118	11.9 115.1 119.3 12.7 115.1 119.8 12.5 114.7 119.6	2 114.7 119 5 114.8 118	4 114.9 117 7 114.6 116	1.5 113.2 114.6 1.7 111.8 113.8 0.5 110.9 112.7	2 107.5 111	2 03 5 2 03 5 5 5 5 5	97.1 100	9 84.4	5 74.4 73	3.9 125.9 129.9	IALPHA SB59 PAMB 29.4400	SIZE (21.49 SQ IN)	
EVELS	CENT R.H. STD. D - MODEL FJ- BACKGROUND FJB		110. 120. 1		:	97.8 1 99.7 1 100.9	102.3	99.4 104.1 11 100.9 105.6 11 102.0 107.2 11	108.9	107.8 1 108.6 1	104.4 107.9 1 104.8 107.6 1 104.4 106.8 1	103.9 106.6 1 103.5 105.5 1	100.2 101.4 97.1 99.3	92.2 96.7 89.9 93.0	78.5 84.4	65.9 73.8	115.4 119.0 123	E NO. N312 RDG. ADH210	138.7 SQ CM	•
L SOUND P	. 70 PER	ANGLES ME	0. 90. 100.			8 93.1 5 92.7	6 94.3 95	2.08. 2.09. 3.98. 3.98.	3 99.4 (01 3 98.2 100	.7 99.8 101 .4 100.1 101	.7 99.9 .6 100.0 .7 100.3	6 100.5	. 8 98.3 97. . 4 96.7 94.	.6 93. 2 87.	6 79.5 78.	.4 65.9 65.	5 111.5 112.4	TAP CH AERO.	C RANGE 40.0 FT) ARC	
NTRANSFORMED N	59.0 DEG. F		60. 70. 80			.0 87.8 .9 87.9 7 89.2	0 90.8	92.1 91.6 93.9 94.8 95.5 94.8 95.8	.4 96.0 97 .2 95.5 96	.3 97.1 97 .1 96.6 97	.4 95.9 97 .1 96.8 97 .9 96.9 97	9 97.3 98 0 97.0 98	. 1 95.1 97. 8 93.5 96 3 91.5 95	7 86.4	3 75.2	0.9 64.3	98.5 108.1 109.)ATE 03-23-78 ION C41 ANECH	ACOUSTIC	
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FORMED MODEL SOUND PRESSURE LEVELS	70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	TIFICATION - FJ-ZER-FMODL X02220	SLES MEASURED FROM INLET, DEGREES	100. 110. 120. 130. 140. 150. 160. PWL.						93.2 95.1 97.8	93.8 95.9 99.7 106.2 110.4 116.1 112.5	94.0 96.2 100.9 110.0 113.2 118.3 113.0	95.1 95.8 102.3 111.4 114.7 118.9 115.0 96.2 99.4 104.1 111.9 115.1 119.3 114.4	97.8 100.9 105.6 112.7 115.1 119.8 114.9	99.1 102.0 107.2 112.5 114.7 119.6 114.8 151.9	100.4 103.1 10/.6 113.1 113.3 120.7 114.9 132.7 101.6 103.5 108.9 113.2 114.7 119.7 114.2 152.2	100.1 103.5 108.7 112.5 114.8 118.5 111.5 151.3	101.5 104.6 107.8 113.4 114.9 117.6 110.4 151.2	101.7 103.4 108.6 112.7 114.8 116.1 103.1 130.6 101.5 104.4 107.9 111.5 113.2 114.6 108.4 149.5	101.6 104.8 107.6 111.7 111.8 113.8 107.5	100.8 103.9 106.6 109.0 109.5 111.4 106.4 147.9	99.9 103.5 105.5 108.2 107.5 111.3 105.4 147.7	99.2 101.6 103.0 105.8 105.5 109.2 102.9 146.4 97.5 100.2 101.4 104.3 103.3 106.7 101.3 146.0	94.4 97.1 99	87 9 89 9 93 0 95 7 93 9 95 3 92.0 1	82.9 84.9 88.7 91.2 90.8 90.9 88.2 1	78.3 78.5 84.4 84.9 84.4 85.6 83.5 142 72 6 72 3 80 3 79 4 78 2 80 8 77 6 142	65.3 65.9 73.8 73.5 74.4 73.6	5 112.4 115.4 119.0 123.9 125.9 129.9 124.5 163.3	REE JET VELOCITY (FT/SEC) O. REFRACTION CORRECTION - YES FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES		TAPE NO. N312 IALPHA SB59 TAMB 46.94 AERO. RDG. ADH210 PAMB 29.4400 RELHUM 80.30	SIZE FREE-JET SPEED F) ARC 138.7 SQ CM (21.49 SQ IN) - MODEL O. M/SEC (O. FPS)	
TRANSFORMED MODEL	, 70 PERCENT R.H. S	ı	ANGLES MEASURED FROM I	110.						5 93.2 95.1	4 93.8 95.9	7 94.0 96.2	6 96.2 99.4	6 97.8 100.9	0 99.1 102.0	4 101 \$ 103.5	2 100.1 103.5	.8 101.5 104.6	04.4 4.4.4	101.6 104.8	103.9	99.9 103.5	.3 99.2 101.6 103 .3 97.5 100.2 101	7 94.4 97.1 99	9 87 9 89 9 93	.0 82.9 84.9 88	.5 78.3 78.5 84	9 65.3 65.9 73	12.4 115.4	VELOCITY JET DIAM	- 1	TAPE NO. Aero. Rdg.	T) ARC 138.7 SQ	
FLIGHT	59.0 DEG.		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	. 50. 60. 70. 80.						88.0 87.8 88	87.4 87.9 87.9 90	88.4 89.7 89.2 90	90.6 92.1 91.6 93	91.1 93.1 93.9 94	95.2 96.5 94.8 95	96.3 97.1 96.8 98 94.4 95.4 96.0 97	96.2 97.2 95.5 96	96.1 97.3 97.1 97	97.1 97.1 96.6	96.8 97.1 96.8 97.6	96.9 97.9 96.9 97.7 97.0 97.9 97.3 98.3	94.6 97.0 97.0 98.6	92.0 94.1 95.1 97 90.5 92.8 93.5 96	87.8 8	94.3 50.4 67.0 32	74.8 79.4 81.1 85	69.7 72.3 75.2 77	58.5 60.9 64.3 63	6 107.4 108.5 108.1 109.5	MODEL/FULL SIZE SCALE FACTOR INPUT 1.000 CALC. 1.000		TEST DATE 03-23-78 LOCATION C41 ANECH CH	NEST POINT ACOUSTIC RANGE 0222 12.2 M (40.0 F	
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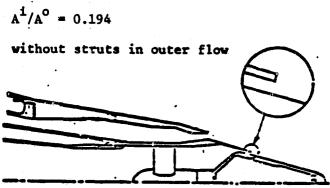
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02/15/80									:																					46.94		FREE-JET O. M/SEC (
	E LEVELS SL		-	PWL	168.2	169.6	170.1	170.0	170.3 169.5	169.3	167.7	167.3	166.0 166.0	165.8	164.1	163.3	162.2	162.0	160.4	160.3							181.2			TAMB			
	UKE LE			160.	86.2	6. 4 4. 4	ردًا. 1.8	87.4	86.0 82.6	80.7	76.7	74.8	71.4	68.9	59.5	52.1	41.5 20.5	2									96.0	96.7	_	59		- FULL	
,	SB 2400.0 FT.	21	S	150.	94.8	95.7	96.1	95.7 96.6	95.3 93.6	92.2	87.9	86.4	84.6	81.7	74.1	68.8	59.8	28.0									105.1	107.1	IFT -9	SB59		SQ IN)	
	SB 24	X0222	DEGREES	140.	91.9	93.7	93.6	93.1	92.7	92.1	89.5	87.6	86.1	81.8	75.8	71.2	64.5	42.2	18.0									107:9	4CY SHI	IALFHA		SIZE 1400.00 9	
	EXTRAPGLATED H. STD. DAY,	-FMODL	INLET.	130.	90.3	92.1	92.8	92,0 93.0	92.9	92.4	89.7	89.5	88.0 86.1	85.0	79.9	75.7	68.9	50.0	30.4	0.1							103.0	107.9	FREQUÊNCY			CM (140	Section 2
 	EXTRAP		FROM I	120.	82.3	8 8 8 8 8 8 8 8 8	86.8	88 88 .0 .0	89.7	88.	87.5	86.8	85.7	84.0	79.1	76.1	71.6	53.5	37.2	-							99.0	105.1		N312	א אוועא	.2 SQ (
	HT TRANSFORMED, SCALED, AND E 59.0 DEG. F., 70 PERCENT R.H.	ION - F	ASURED	110.	78.2	81.4	82.8	83 83 80 80 80	85.0	85.7	86.3	85.0	84.3 83.6	83.0	80.6 2.6	75.4	68.9	53.0	35.8	10.3						-	96.0	102.5	8.070	E NO.	, NO.	9032	
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	RMED.	IDENTI	ANGLES	90.	75.2	76.8	79.1	80.4	81.5	81.5	81.4	80.8	80.9	80.8	78.2	76.1	71.7	57.	39.9	<u>ස</u>							92.6	101.9	DIAMETER		5		
	RANSFC DEG.			80.	73	75	16	28 0	79.3	26	78	78	78	78	77	7 4	200	2 2	37	₽							90.4	99.8	DIA	03-23-78	ANECH	ACGUSTIC RAN 5 M (2400.0	
	FL IGHT 1			70.	71.2	72.8	75.8	76.6	77.5	78.2	77.3	76.9	76.8	76.6	74.3	69.8	64.4	29.9	32.5	7.1							88.6	95.6				AC01	
	디			6 0.					76.2	• •					• 1	. ,	61.3	•									88.2	94.2		TEST DATE	NOT I E	7	
				50.	68.6	70.0	71.2	75.2	74.0	75.1	75.7	74.6	74.4	71.4	68.2	62.2	56.3	34 5	15.2								85.9	91.2		TES	9	T POINT 0222	
				.	66.1	65.8 4.8	70.6	74.1	72.8	71.8	73.0	70.7	68.6	63.7	60.1	49.5	44.7	36.1									82.7	87.3				TES	
268				FREO	20	63	100	125	200	315	4 F	630	800	1250	1600	2500	3150		9300	8000 0000 0000	12500	2000 2000 2000	25000	31500	50000	80000	OASPL	PNLT				MODEL 0200	

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6.1.4 Measured Acoustic Data for Model 3

ORIGINAL PAGE 19 OF POOR QUALITY,

 $R_{r}^{o} = 0.853$ conic outer nozzle $R_{r}^{0} = 0.933$ conic inner nozzle



					OR OF						IS ITY												SPEED 0. FPS)	
R.H. STD. DAY, SB 40.0 FT. ARC - FJ-ZER-FMODL X03010	ED FROM INLET, DEGREES	0. 120, 130, 140, 150, 160, PML		6 100.8 107.6 112.0 115.7 115.4 1	7 102,7 109,7 113,6 117,3 116,2 1 2 104,0 313,5 116,9 118,3 116,3	1 105.5 13.1 110.7 119.7 116.8	0 109,4 117,2 120.9 120.5 117.7	3 111.0 116.3 120.7 119.9 116.5 1 7 110.9 116.5 122.1 119.7 114.9	3 111.8 117.4 121.6 117.6 113.8	7 112.4 116.0 120.2 115.1 110.9 1 1 112.3 119.2 119.1 114.8 110.3	9 112.7 118.6 117.5 113.6 1	111.6 116.8 115.4 110.8 107.0	A 111.0 114.1 112.6 108.4 104.9	6 107.0 110.7 108.2 104.7 101.6	0 105.6 109.3 105.8 102.7 100.1 1 4 103.0 105.5 102.8 99.4 96.9 1	5 99.8 100.7 98.3 95.4 94.7	5 96.5 99.2 95.8 90.0 88.7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 36.9 88.0 85.1 80.2 79.3 1 7 82.2 81.6 79.1 75.2 74.0 1	0 76.3 76,7 74.4 65.2	8 122.9 128.6 130.8 129.4 126.4 166.3	DOITY (FT/SEC) 0, REFRACTIÓN CÓRRECTION - YEST DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YEST	. N310 IALPHA SBS9 TAMB 41,00 . ADH180 PAMB 29.4500 RELHUM 31,90	39.0 SQ CM (21.55 SQ IN) - MODEL	
58.0 DEG. F., 70 PERCENT IDENTIFICATION	AMOLES MEASURI	40, 60, 60, 70, 80, 90, 100, 110	C # 0 0	3 91.1 91.1 90.9 91.7 93.6 96.7	67.4 89.7 90.7 91.2 94.1 95. 70.9 91.2 92.5 91.5 93.3 95.	74.2 91.8 93.8 93.1 94.4 96.3 97.7 1	82,4 94.1 95.9 96.0 97.5 98.8 100.5 1	88.2 101.0 101.3 89.5 89.6 100.8 101.9 1 A8 6 101 4 102 6 102 2 103.5 103.6 104.0 1	98.6 103.5 102.8 100.6 101.4 102.5 103.9 1	100.3 107.9 107.4 164.2 101.5 101.6 103.5 1 99.3 107.3 108.6 108.1 107.4 104.3 104.7 1	97.6 105.4 106.7 107.2 108.5 108.1 106.0 1	96.2 103.4 104.9 104.6 105.9 106.0 108.4 1	93.7 102.1 103.3 103.3 105.1 105.8 106.3 1	81.9 100.7 102.8 102.4 104.8 105.8 105.5 1 89.4 96.9 100.6 101.3 103.3 104.0 103.7 1	87.0 96.6 100.0 100.7 103.1 103.1 101.6 1	80.6 91.2 93.4 93.7 98.7 98.9 96.2	78.7 86.8 90.7 92.5 93.2 93.0 92.2 73.7 81.8 85.7 87.1 91.0 91.5 86.8	.8 76.4 78.3 80.2 83.6 83.6 82. .5 70.7 72.8 74.1 74.9 75.5 76.	55,3 63,5 66.8 69,4 68,8 70,5 69.3	0 116.0 115.4 116.5 116.8 117.0	HODEL/FULL SIZE SCALE FACTOR FREE JET VELC INPUT 1.000 CALC, 1.000 FREE JET	TEST DATE 03-16-78 TAPE NO LOCATION C41 ANECH CH AENO. RD3	MODEL TEST POINT ACGUSTIC RANGE 0300 0301 12.2 M (40.0 FT) ARC 1	

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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	DENTIFICATION - FJ-	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PML			60.9 92.1 90.8 90.3 89.9 90.1 91.	69.0 91.7 91.6 91.0 91.5 92.1 92.3 94.0 100.2 110.1 114.2 116.0 112.9 1	74.3 93.2 93.3 92.5 92.8 92.9 94.1 95.3 102.9 111.2 115.8 116.4 112.7 1	76.5 93.7 95.1 94.0 94.2 94.6 94.8 97.5 105.4 12.3 116.6 117.2 113.2 79.8 94.7 95.4 95.8 95.3 95.9 96.4 99.0 106.6 113.0 117.4 116.8 112.5 1	84.4 95.5 96.2 96.5 96.6 97.3 98.0 100.0 107.4 112.0 117.6 116.0 110.6 1	87.8 98.3 99.2 98.5 98.6 99.5 99.1 101.6 108.1 112.4 118.3 110.0 1 9 9 9 9 9 9 100 9 100 6 10 6 10 6 10	31.2 39.7 100.2 33.0 30.3 100.5 100.0 10 30.1 115.4 115.5 115.5 100.1 103.0 114.1 115.5 115.5 115.5 100.1	103.9 112.5 111.4 110.3 108.8 104.1 102.2 173.8 110.2 115.2 116.7 111.8 108.5 1	101.6 110.4 111.3 108.7 109.7 108.7 104.7 105.1 109.6 114.3 114.9 109.1 106.1 1	95.8 106.7 107.5 108.7 105.7 105.4 107.3 108.0 111.1 113.6 113.2 107.2 105.7 1	98,6 105,9 106,3 106,2 106,5 107,2 105,6 108,7 111,9 113,6 112,2 106,0 104,5 1	99,6 106,2 107,2 105,9 106,1 106,7 106,6 108,3 110,5 112,3 110,5 105,9 103,7 1 98,9 105,5 106,0 104,9 106,2 106,9 105,3 107,3 108,4 110,2 108,4 104,0 102,9 1	98.0 104.3 105.7 104.6 105.1 105.2 104.0 105.6 107.6 109.7 106.3 103.3 102.5 150	96.1 102.8 103.6 103.7 105.4 104.9 102.7 103.2 105.2 106.6 104.0 101.3 101.1 149	93.8 101.4 103.4 102.3 104.4 103.2 99.7 101.1 104.0 103.4 101.7 99.9 101.6 149. 88.5 97.9 99.1 97.2 101.6 100.7 97.7 96.6 100.9 101.9 98.7 95.0 149	86.1 94.0 95.0 96.8 96.0 95.6 94.1 94.1 97.0 97.0 94.6 89.5 91.6 I	78.2 83.2 86.8 85.2 86.4 86.1 84.0 02.8 천원.0 85.0 83.7 79.2 81.	70.4 77.1 77.7 78.6 78.2 77.4 78.3 75.2 83.6 81.8 80.0 71.6 74.3 1 63.1 70.4 70.7 73.5 71.6 71.5 69.9 69.7 73.6 72.0 70.2 61.8 64.5 1	110.7 118.2 118.4 117.4 117.2 116,9 115.8 117.1 121.1 125.4 127.7 125.9 122.5 1	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 289.00 REFRACTION CORRECTION - YES INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES	TEST DATE 03-16-78 TAPE NO. N310 IALPHA SB59 TAMB 40.82 LOCATION C41 ANECH CH AERO. RDG. ADH179 PAMB 29.4500 RELHUM 32.90	MODEL TEST POINT FREE-JET SPEED 81ZE SIZE 12.0 SQ CM (21.55 SQ IN) - MODEL 86.09 M/SEC (289.0	
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FTJ ARC	ION - FJ-400-FMGDL	ANGLES MEASURED FROM INLET, DEGREES	40. 60. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160. 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MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 396.00 REFRACTION CORRECTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE CORRECTION	TEST DATE 03-16-78 TAPE NG. N310 IALFHA SB59 TAMB 41.72 LGCATION C41 ANECH CH AERG. RDG. ADH184 PAHB 29.4550 RELHUM 31.20	MODEL TEST POINT ACOUSTIC RANGE 530.0 SQ CM (21.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55 SQ IN) - MODEL 117.65 M/SEC (2.55	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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	TEST DATE LOCATION T POINT 731	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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CONTRACTOR OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE O	ONINANSIONALE SOUND FRESSORE LEVELS CORRECTED FOR BACKGROUND NOTSE.	IDENTIFICATION - MODEL FJ-ZER-FMODL X03040 BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES	50. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160.		.6 92.6 93.1 93.5 96.3 96.0 100,1 102,8 109,6 114,6 116,0 117,4 161. 9 91.9 93.2 95.1 97.2 97.6 100.2 105.2 112.0 116,4 119.3 118.0 152.7 93.7 93.5 95.1 96.7 94.1 100.7 106.0 116.0 119.3 120.6 117 5 155.5	. 5 95.5 95.1 96.2 98.3 99.4 102.1 107.5 117.6 121.0 121.4 116.1	.9 \$6.6 96.2 98.3 99.6 101.3 104.2 109.6 118.7 122.3 121.3 118.7 1 .7 97.7 98.5 98.8 100.9 102.3 106.0 111.2 119.5 122.9 121.8 116.2	.5 105.8 105.5 103.4 103.0 103.6 106.8 112.5 119.3 123.7 121.1 117.3 16 105.9 105.4 105.0 104.9 105.5 108.4 113.1 119.2 124.8 120.3 115.7	.5 109.0 106.8 104.1 104.5 105.6 108.6 113.5 119.8 124.1 118.5 113.6	6 109.6 110.1 111.2 109.8 107.7 110.1 114.1 121.5 120.6 115.8 110.6 1.2 107.9 108.4 109.8 111.6 110.8 111.2 114.4 120.8 119.0 114.4 108.6	.4 107.9 108.1 108.2 109.0 110.9 111.6 113.9 119.5 117.7 112.6 106.0 107.1 107.1 108.2 109.0 108.9 113.1 113.9 119.1 117.2 111.5 106.3	.1 106.8 106.8 107.3 109.6 109.8 112.8 113.7 118.0 115.7 110.5 106.1 1 .6 106.5 106.6 107.8 108.5 109.0 111.7 113.4 116.4 114.3 108.9 104.4	103.2 105.3 105.3 107.2 108.6 108.2 111.0 112.3 115.5 112.3 107.6 103.4 153.4 100.6 103.0 104.3 106.3 107.4 106.6 109.0 109.6 112.9 110.2 104.9 101.6 152.1 99.1 102.4 103.1 105.5 106.6 104.7 107.4 107.7 111.0 107.7 103.4 99.8 151.9	7 98.2 100.8 104.2 105.1 101.7 104.1 104.9 106.9 104.2 100.3 97.6	.3 95.6 90.5 101.4 101.3 99.1 96.6 102.2 103.1 99.9 95.6 34.6 9 93.1 94.9 95.4 95.7 94.9 95.9 96.4 100.6 96.7 91.1 66.4 10.0 66.1 69.7 92.9 94.1 69.7 90.6 93.6 95.6 95.9 92.2 65.7 64.3	.1 80.7 83.6 85.2 86.5 84.7 84.4 89.3 90.2 86.5 80.9 79.0 1 .9 75.2 77.2 77.3 78.2 75.5 78.6 95.1 84.5 80.6 76.1 73.7 1	.8 116.8 118.7 119.2 119.6 119.7 122.1 124.9 131.1 133.1 130.7 127.4 1	N310 IALPHA SES9 ADH181 PAMB 29.4550	ACGUSTIC RANGE 2.2 m (40.0 FT) ARC 139.0 SQ CM (21.55 SQ IN) - MODEL 0		
	•			40.	FREQ 50 63	66.3 69.1 72.9	75.5	76.3	94.0 1	103.7	200.3	99.5	97.1 1 86.6 1	94.8 91.8 10.7	95.0	76.9	5.4 7.2 7.2 7.2	109.8 1		\$20EL TEST 0300 03	279	

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-MGDL X03040	DEGREES	140. 15		114.5 110		122.3	123. 7 121 124. 8 120 124. 1 118	122.4 118	119.0 114	117.2 111	114.3 108	110.2 104	99.9 95	96.7 91 92.2 85 86.5 80	76.1 67	133.1 130.7	48 .00	IALPHA SE PAMB 29	SIZE 21.56 30 1	
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DENTIFICATION -	ANGLES MEASURED	100. 110.		6	63.0 64.4 96	95 8 97 47 8 98	100,2 102	101.4 104 02.6 104	103.1 105	10% 7 108	108.0 111	108.3 110	106.5 108	103	0.0	90.4 91.5 95.5 84.7	72	116.2 119.8	JET FREE	TAPE NG. AERG. RDG.) ARC 139.
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				FRED 50 63 60	100	160	250	318 400	200	630	000	1250	1600 2000	2500	3150	2000	6300	10000	12500	2000	25000	40000	50000	0000 9	GASPL			MODEL	285	

NTIFICATION - FJ-400-FMODL X03060 NOLES HEASURED FROM INLET, DEGREES D. 100. 110. 120. 130. 140. 150. 160. 160. PML 8 92.1 83.1 97.3 104.0 108.4 112.5 112.7 145.6 9 92.4 9.9 10.7 10.9 111.2 114.0 113.1 148.1 9 92.4 9.9 5.7 104.9 111.2 112.5 112.7 145.6 9 92.4 9.9 5.7 104.9 111.2 112.5 112.7 145.6 9 92.4 9.9 5.7 104.9 111.2 112.5 112.7 145.6 9 92.4 9.9 5.7 100.9 111.2 113.2 117.9 114.0 150.5 1 100.1 103.1 109.9 111.2 115.1 113.1 114.0 153.6 1 100.1 103.1 109.9 111.2 117.1 113.1 115.1 114.0 153.6 1 100.1 103.1 109.9 111.2 117.1 118.1 118.1 118.1 118.5 1 100.1 103.1 109.9 116.0 121.4 116.2 115.2 154.0 1 100.1 103.1 109.9 116.0 121.4 114.9 155.6 1 100.1 103.1 103.1 10.9 117.2 111.0 110.2 154.1 2 101.7 10.6 10.0 110.9 112.8 117.9 117.0 110.2 154.1 2 101.7 10.0 10.0 110.9 112.8 117.9 117.0 110.2 154.1 2 101.7 10.0 10.0 110.9 112.8 117.9 117.0 110.2 154.1 2 101.7 10.0 10.9 11.2 114.4 113.9 10.7 1 10.8 4 153.9 1 105.8 100.0 110.9 112.8 117.9 117.9 10.7 1 10.8 152.6 1 105.8 10.0 110.9 112.8 117.9 10.7 1 10.8 10.9 10.8 10.8 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9								IS Y	PAGE QUALI	NAL OOR	ORIG OF						
FREQ 40. 50. 60. 70. 80. 90. 90. 63. 63. 63. 63. 63. 63. 63. 63. 63. 63	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 385.00 REFRACTION CORRECTION - INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 46.00 TURBULANCE CORRECTION -	66.7 73.2 73.0 74.3 73.6 73.7 71.8 71.9 75.7 73.3 70.8 64.0 68.4 146 115.3 123.0 122.8 120.6 120.3 119.6 118.2 119.5 123.4 127.8 130.2 127.3 125.6 167	73.5 80.5 81.0 81.9 80.1 79.5 80.4 78.2 85.5 83.1 60.7 73.8 78.2 147 66.7 73.2 73.0 74.3 73.6 73.7 71.8 71.9 75.7 73.3 70.8 64.0 68.4 146	81.9 86.5 80.8 81.0 81.9 80.1 79.5 80.4 78.2 85.5 83.1 60.7 73.8 78.2 147	90.0 98.1 98.5 96.5 98.7 97.2 96.2 95.7 99.5 100.0 97.2 93.1 98.6 150 87.0 92.4 95.2 93.1 96.8 95.2 90.6 91.6 95.3 93.2 91.2 88.3 92.8 150 81.9 86.5 88.9 89.2 88.6 87.8 86.3 84.8 91.6 87.2 85.9 82.9 88.0 149	97.2 105.2 105.2 105.3 105.3 107.1 105.3 107.1 105.7 105.7 105.7 106.6 106.6 107.1 106.1 107.1 106.1 107.2 106.2 104.2 106.6 105.2 105.2 105.2 105.3 105.3 103.7 106.8 105.8 104.0 102.9 105.5 101.9 101.5 101.9 102.5 102.8 99.6 99.5 102.6 100.7 95.2 100.2 101.5 101.5 102.5 104.2 102.8 99.6 99.5 102.6 100.7 95.2 100.2 1	102.6 108.8 110.0 108.8 109.3 109.6 108.8 110.8 113.2 114.4 113.9 107.9 108.4 104.0 108.8 107.1 107.8 108.0 110.0 110.8 110.9 107.1 107.8 109.0 110.0 112.3 108.8 107.7 108.4 108.4 108.6 108.0 110.3 112.3 109.9 105.7 106.6	103.0 103.0 110.6 109.3 109.4 109.0 108.4 111.4 113.6 116.4 115.0 109.1 109.4	104.2 112.7 114.2 113.5 111.3 107.0 106.0 112.6 117.9 118.4 114.3 113.9 155 106.0 112.8 112.7 111.9 109.1 110.7 110.0 108.7 113.0 117.3 117.2 112.4 112.1 155 103.0 110.3 111.0 109.4 108.4 107.7 109.4 110.1 113.4 116.9 116.0 111.0 110.2 154	89.1 100.9 100.2 99.9 98.7 99.1 98.7 101.4 109.3 115.1 121.1 116.1 114.8 153 96.5 105.3 102.3 100.2 102.3 101.1 100.1 100.1 100.1 100.9 116.0 121.4 116.2 115.2 154 105.9 116.0 111.7 105.7 106.1 102.5 101.7 104.2 111.2 117.1 121.3 115.9 114.9 155	74.6 95.4 94.5 93.0 93.8 93.2 93.7 94.9 101.9 111.3 115.6 117.1 114.0 174.0 96.0 96.5 93.7 94.2 94.3 94.9 96.7 104.3 113.2 117.5 118.2 113.6 178.5 96.7 97.5 95.1 96.6 95.5 96.2 98.3 107.0 114.3 119.2 117.9 114.2	73.7 94.9 93.6 93.4 91.5 91.5 92.1 93.1 97.3 104.0 108.4 112.5 112.7 73.7 94.9 93.8 93.4 93.0 92.8 92.4 93.7 99.1 108.4 112.3 115.0 113.1	50 63 80 100	40. 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160.	SURED FROM INLET,	- FJ-400-FMODL	FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS. O DEG. F., 70 PERCENT R.H. STD. DAY, 58 40.0 FT.

											0	RF	igi P C	NA DO	R	P. QI	AG	E	IS TY:												:-JET SPEED SEC (365.0 FPS)	
T. 3L			5	67.2	67.2	87.8	67.4	96.7	65.9	81.4 173.1	78.8	74.5	72.8	70.1	6.0	59.7 170	29.0 1	1.3 169	167.4	.64.6 .64.6							5 96.7 185.0 0 98.2		6-	5859 TAM 41.18 29,4554 RELHUM 31,30	FREE-JET) - FULL 117.35 M/8EC (
7, 38 2400.0 FT.		r, Degrees	140.	94.3	2. A	98.2	29.5	, o	97.6	96.9 90.6 66.7 96.0 93.9 86.3	92.3	000	65.0	2:	78.7	74.7	9 6	42.5 25		9.0		•					8.7 108.0 102.5 1.7 110.8 104.0	.7 110.8	FREQUENCY SHIFT	IALPHA SB5	\$1.2E (1400.00 \$0 IN)	
œ	- FJ-400	URED FROM INLET,	Ġ	76.9 63.2 92	92.0	69.4	90.4		91.8	83.0 83.0	83.0	82.6	9 6	88.7	67.7	83.6	76.3 77.5 75	60.2	4.4	16.9							98.7 103.0 106	110,2	8.061 FRE	NG, N310 RDG, ADH163	9032,2 SG CH	
O DEG. F., 70 PERCENT	I DENT I FI CATION	ANOLES MEAS	90. 100.	7 76.1	77.00		6 90.8	83.2	95.1	92.9 68.6	7.08	89.0	20.00	4 87.0	8 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 .	4.10	9 77.4	5 60.4	2 46.0	2 21.9							100.4 98.0	109.e 107.3	DIAMETER RATIO	TAPE CH AERG.	TIC RANGE 2400.0 FT) SL	
59.0 DEG. 1			70. 80.	75.0 76.	75.7 76.	77.0 79.	8 61.7 80.	8 61.9 84.	93.1 92.	5 94.5		8 89.4 90	9 56.7 69	67.2 69	67.5 88	60.2 67	82	70.0 73	16.4	19.9 21.							5 101.1 101.	1 109.2 110.7		03-16-78 C41 ANECH	ACOUSTIC 731.5 H (.240	
			50. 50.	75.6 75	76.2 77	76.9 78	80.9 81	68,1	95.7	91.7	4.19	7 86.9 89.	96.3 68.	3 85.6 87.	85.5 87.	0 62.6 64.	2 73.4 76.	65.3 69.	32.0 60.	1.1							9 101.7 102	5 108 9 110		TEST DATE LOCATION	TEST POINT	
;			9	FRE0 50 53.			- 1			315 01.4			ı							0000 0000 00000	12500	16/00 20000	25000	31500 40000	50000	00000	DASPL 91	PNL 97	į	1124 32V	HODEL	28

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07/19/79 17,289										OR	nGI P	NA OO	L I	PAQ	(GE	: 18								39.74 33.60	FREE-JET SPEED O. M/SEC (O. FPS)	erry.
	O FT. ARC	X03070		150. 160.]		113	.3 114.2 148 .1 114.5 150	.2 114.0 151	.5 116.2 152 .8 117.0 153	.1 117.0 153 .7 115.9 153	3 114.5 152	0 109.5 152	3 108.6 151	.7 106.0 150	.2 105.9 150 .2 104.0 149	.4 103.3 149	03.2 100.1 147.5	2 24 7 45	0 90.3 145	.4 79.7 142	.9 74.6 142 .4 67.0 143	28.5 125.6 164.3	3859 TAMB 29.4700 RELHUM	IN) - MODEL	
	DAY, SB	FJ-ZER-FMODL	INLET, DEGREES	130. 140. 1			106.6 111	108.2 112.6 1 112.5 115.7 1	113.9 117.0 1	114.2 117.8 1 114.7 117.8 1	114.3 117.6 1	113.8 116.3 1	115.4 116.9 1	114.7 117.2 1	114.5 114.9	113.5 112.7 1	111.0 110.0 1	106.9 105.3 1	98 3 97 4	97.2 94.7	92.0 95.0 94.0	79.8 79.3 75.2 74.1	126.0 128.6 12	I ALPHA PANB	SIZE CM (21.55 SQ	
	ERCENT R.H. STD.	ON - MODEL BACKGROUND	MEASURED FROM	00, 110, 120,			0.96.0	97.7	9 99.1	. 3 101.2 . 3 102.9	5 103.8	6 105.8	4 106.5	4 107.4	6 107.0	3 106.7	3 105.7	102.6	0.80	91.4	2 79.9	74.5 73.4 79.9 66.9 67.7 74.7	4.4 117.6 121.	TAPE NG. N310 ERG. RDG. ADH17.	ARC 139.0 SQ	
<u> </u>	O DEG. F., 70 PERC	IDENTIFICATIO	ANGLES	. 80. 90. 1			90.5 92.6	2.7 2.7 2.7	93.2 96.0	98.8 88.8	97.6 99.5 1	99.6 101.0 1	100.1 101.2 1	99.9 101.6 1	100.6 101.9	7 103.1 1	101.3 102.9 1	101.9	20.00 G 7.00 7.00 7.00 7.00 7.00 7.00 7.0	90.0	85. W 85. G	73.2 67.9	6 112.0 113.5 11	16-78 ANECH CH AE	RANGE 10.0 FT)	
	59.0 D			50. 60. 70			6 69.3 69.	7 99.4 9 0.7 91. 0 9 0.	8 92.5 92.	6 95.4 94.	2 99.8 97.	2 97.5 97.	0.08	3 99.1 98.	8 100.1 99.	3 100.0 100. 2 98.6 99.	6 98.4 99.	2 95.7 97.	A 00 3 01	2 68 4 99	4 76.0 78.	70.7 72. 66.0 67.	09.1 110.7 110.	TEST DATE 03- LGCATION C41	ST POINT AC	
288				40.		0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	63.0	65.6 69.2	71.5	74.8	9.29	87.1	88.7	90.8	90.7	87.6 87.4	84.8	6000 60.4	5000 74 9	72.8	0000 68.8 0000 62.2	56.4 51.7	0ASFL 99.0 10		MGDEL TEST F	

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								OF	iG F	iN O	AL OR	Q	Ż	GE AL	: IS										•		ED FPS)	
			•																						- YES - YES		ET SPEED (0.	
																									CORRECTION CORRECTION	74	FREE-JET M/SEC (
									•	. (0	0.5			- «			. m		·		0 10	•		"		3 39.74 1 38.60	o.	
O			Z				147.3		9.00	152.		100			151.8	Ψ.	,	- -		-			7	164.3	CT ION	TAMB	급	
T. ARC			160.				113.9	114.2	14.0	116.2	117.0	115.0	114.5	100.6	108.6	106.0	104.0	102.3	1001	1	90.3 85.3		• í •	125.6	REFRACTION TURBULANCE		- MODEL	
.80.0 FT	2	S	150.				114.0	116.3	116.2	118.5		1.0.7	-1		113.0	110.7	108.2	106.4	වි ව ග ග	95.9	91.0 85.6	4.5	67.4	128.5		3859 29.4700	(N)	
9	X03070	DEGREES	140.				11.0	12.6	•		17.9 7.7			•	27.		11.3				94. 7 90. 4	84.8	74.1	128.6	0. 48 .00	TALPHA PAMB	SIZE 21.55 SQ	
DAY,	MODI.	1	130.				9 90		•	14.2	•	13.90	•	•	7.4	-	2.2.	-1 -			97.2 92.0			126.0 1	SEC) (IN)	=	-	Ì
R. H. STD. DAY, SB	FJ-ZER-FMODL	ASURED FROM INLET,	. 50.				1 6	<u>ا حان</u>	7 8 6	5.9	38.2 1	20.00	0.0	0.0 0.0	9.0	-		_ _		- 1				121.1 1	VELOCITY (FT/SEC) Jet diameter (IN)	N310 ADH174	SO CM	
E.	1	RED FI	10.				98	-	7.06	9	O3 0) 4	0	- K	07.4	901	06.0	-0	10 C	-	40	0	1	9	LOCIT T DIA	1	139.0	
RCENT	SATION	MEASU	00.				C	-	o	ص ح	6.0	0	9	4 4	4 4	90	·	2 60	- 0	9	0 0	~ II	0	1.4 117	JET VE FREE JE	TAPE NO.	ARC	
70 PERCENT	DENTIFICAT	ANGLES	90.				Œ	4	0 0	9	6 R	9 0	0	-	. e. c. c. c. c. c. c. c. c. c. c. c. c. c.		- 0	7 6	ن د م	. ~	0 9 09	a c	v a	.6 114	FREE .	TAI	1	
L.	1 DE	X	•				E .		- a	1 10	e 4	_ Q(5	 	9			200	— დ «	. 60		0	20	0 113		용	ACCUSTIC RANGE 2 M (40.0 FT)	
0			8									_		•		-·		- -			,		.	.6 112	FACTOR 1.000	03-16-78 C41 ANECH	OUSTIC M (
28			2				6	8		93.	94.	9	97.	8	8 8	8	96	98	97.	9	89 9.4	78.	67.	110	SCALE CALC. 1	ŀ	12.2	
			. 60			i .					١.		1		98.	., .		-l -						110.7	E C	TEST DATE LGCATION		
			20.			٠							1		8 8	.l -		.1 .			83.2 78.0		-1 -	109.1	FULL \$1.	TES	TEST POINT 0307	
			ė					.1 -					- 4	•	900	-1 -		-1 -		• •i	1 . .			98.0	MODEL/FULL INPUT 1.		ı	
			FREG	63	90 00 00	125 160	200 200 200 200 200	315		630	900	220	900	8 8	120	800	000	200	0 0	80	200	000		GASPL			MODEL 0300	289

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SQUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X03075

IDENTIFICATION - FJ-ZER-FMODL

													OF	el C	ill PC	NA DO	LR	FQ	PA U	GA	<u>.</u> 17	is TY	·			en e									FREE-JET SPEED M/SEC (0, FPS)	
																																		36.74 36.60	FREE 0. M/S	
	ā	£ .	700.	170.7	171.1	171.2	171.6	171.0	170.6	170.5	169.8	166.9	166.	160. 187.	167.0	166.0	165.7	164.6	163.2	163.1	161.0		161.6								182.3			TAMB		
	160.) · · · · · · · · · · · · · · · · · · ·	80.0	89.8	89.6	98.1	96.3	81.7	78.6	77.9	76.3	20.00		9 4	63.G	58.3	49.6	39.6	20.											97.3	0.78			- FULL	
6	150.	[6	0 K	9	92.	96.3	92.6	93.0	o (86.6	87.3	86.0	20.0	- 6	1 0	74.2	70.6	64.6	55.6	41.8	0 · XX										103.8	0.00	FT -9	\$859 29.4700	ŝ	
DEGREES	140.	9		96	96.4	96.9	96.5	96.3	96.0	92.0	8			0 0	7 60	9.	77.8	73.0	64.7	55.8	- d) }									106.2		Ŧ	ALPHA PAMB	\$1 ZE 400.00 SQ	
	130.		7.78	4	94.0	94.3	93.8	93.5	0.0	4.6	93.0	92.7	22.0		9 6	9.0	82.5	77.6	70.3	64.4	<u> </u>	, c	;						;		105.0		FREQUENCY	1	5 (_
EASURED FROM INLET,	120.	- 1	6 4 5 4 5 -	22.	89.3	90.3	•	90.0	-4		•		• •		•	82.9		-		-1	04.0		•								101.1	9	Ē	N310 ADH174	2 80 CM	
URED	110.	- 1			84.9	85.6	87.1	87.3	87.4	87.6	68.1	87.6	4.70	8 6 0 7		93.6	81.4	77.3	70.8	64.8	0 6 7 6	•	•								28.2	.h.	8.061	RDG.	9032.	
Ī	100.		9 6	9	91.6	83.1	84.6	84.6	94.5	8 4	9.7	84.3	27.7			9	79.7	76.5	21.6	64.8	9 0	9 6)								8 6	02.6	RATIO	TAPE AERG. F	36	
ANGLES	90	- 1						-	-1				-1	_		81.7				-1											28	0.70	AMETER RA		RANGE 10, 0 FT)	
1		1						-	.,	•		•	-1			80.1	ι.			- 1											92.9	02.7	DIAME	6-78 ANECH CH	, 유	
	70.		0 -	-	•	4	<u>ب</u>	<u>.</u>	4	6	19 1	י פו		. -	- 4	4	0	ď	a	ر ا	ם פ	٥ د	4								0 1	200		03-16- C41 AN	ACOUSTIC 5 M (24	
	9	,	N «	.	9	8	9	e .	-	ლ (0 (9	2) K	9 d	24.5	4	O)	cu ·	4	N d	٥ ر	Ł					. •			80.8	فأذ		LOCATION	731	
	20		» c) E	۰.	a	۲.	.	aj.	0	o (0	ام		, ₄	70.3	8	O	۲.	4	٠.	•							-		P 6	· [•		LOCA	TEST POINT 0307	
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FJ-300-FMGDL	IOM INLET,	12¢. 130					2	5.3 101.	201 2 98	.00	.9 110.		10	0	0 4	07.9 111.3	30	9	07.5 110.	7 107	03.6 104.	0	r- (86.3 82.	6	71.5 69.	119.0 123.1	VELOCITY (FT/SEC) Jet diameter (IN)	N310 ADH175	SQ CM (ķ
NTIFICATION - FJ-	EASURED FROM	110.				,		a	9 e	94.2	96.6	50.00	100.7	101.3	102.0	103.4	103.8	104.1	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	102.8	101.6	95.3	92.3	80.8 80.8	73.9	67.6	114.6 11	1	APE NO. NO.	139.0	
DENTIFICATI	ANGLES ME	90. 100.								4 92.	. 94	9 6	3 98.	98	0 6	4 100.2	100.	0	85 c	6 101	9.6	95.	.5 91.	7 G	6 75.	.3 67.	1.4 112.1	FREE JET FREE	TAP AERO.	E FT) ARC	
IOE	K					-		0	N IC	4	0	9 1	. 0	4	D ~	98.2 99	4 -	'n	a c	0	æ .	, ₍	10 c		7	-	112.0 112	FACTOR .	6-78 ANECH CH	ACCUSTIC RANGE 2 M (40.0 FT)	
		70.						9.69	> 0 0 0 0	9.10	93.0	60 0 4. 80 60 4	96.2	97.0	2 0 7 7 8 10	98.4	100.4	101.2	101.1	101.2.1	100.6	9.50		8 6	76.	71.	111.4	SCALE FAC	03-1 C41	ACOUS 12.2 M (
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	-	- 1	FRED	9 8 6	100	125	200	250	3 2 2	8 8	630	000	1250	1600	2000	3150	4000 0000 0000	6300	0000	12500	16000	25000	31500	50000	63000	80000	OASPL 1			MODEL 0300	

IANSFORMED, SCALED, AND EXTRAPGLATED SOUND PRESSUR	URE LEVELS
T R.H. STD. DAY, SB 2400.0 FT.	16.
IDENTIFICATION - FJ-300-FMODL X03086	
ANGLES MEASURED FROM INLET, DEGREES	
0. 120. 130. 140. 150.	160. PWL
45.9 71.2 71.6 72.0 72.9 73.4 73.6 75.3 60.5 69.4 91.8 90.6 63.7 1 Hi a 72 2 73 3 73 8 73 8 78 0 78 1 76 1 83 0 89 8 92 8 91 2 82 7 1	
5 73.0 74.9 74.9 75.6 76.4 78.6 85.2 90.4 92.9 90.8 82.0 1	
56.5 73.8 75.6 76.2 76.7 77.4 77.4 80.3 86.4 91.0 92.2 89.9 81.2 81.0 73.5 76.3 77.2 78.0 78.7 81.0 87.3 92.2 94.1 88.6 79.7 1	7
63.5 76.2 78.3 79.9 79.5 80.5 80.2 32.4 87.5 90.4 92.1 87.4 78.5 1	. 10
64.6 78.6 80.5 78.5 79.4 80.6 80.3 82.8 87.7 80.9 91.2 85.6 77.4 1 66.6 76.0 78.4 78.5 78.6 79.4 80.6 83.3 87.4 91.8 92.3 86.1 78.0 1	- 0
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72.1	1.00.1
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67.6 77.3 60.1 80.8 82.1 82.9 88.8 83.9 86.2 87.2 83.1 75.1 67.2 1	2 165.6
69.3 76.3 79.7 80.7 82.1 83.2 81.9 84.0 64.1 84.8 80.8 73.2 65.0 1 66.5 76.9 80.0 80.4 82.0 81.6 80.9 82.0 82.7 83.5 78.1 71.2 62.3 1	0 6
63.2 74.3 77.4 79.6 81.5 81.9 79.4 80.5 81.2 80.4 75.4 68.4 59.9 1	9 165.5
60.9 72.2 75.8 76.6 80.4 80.0 76.8 77.9 79.1 76.0 70.8 63.5 54.6 1	6 165.6
01.3 66.5 /U./ /I.8 /6.5 /3.8 /3.2 /2.0 /3.8 /2.1 64.4 02.7 39.2 / 43.4 68.2 63.8 67.2 68.3 67.7 66.5 65.7 65.8 62.9 54.4 39.0 20.8 1	8 164.0
31.1 45.5 54.5 56.8 61.5 61.8 56.2 55.3 55.1 48.8 39.8 22.1	164.1
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OASPL 78.2 86.6 90.6 91.4 92.4 93.1 92.8 94.9 98.7 102.0 102.6 98.8 90.5	90.6 179.4
PNL 85.4	81.1 82.2
DIAMETER RATIO 6,061 FREQUENCY SHIFT -9	
TEST DATE 03-16-76 TAPE NG. N310 IALPHA 3B59 LOCATION C41 ANECH CH AERO. RD9. ADH175 PAMB 29.4600	7445 40.10 00 RELHUM 36.60
MODEL TEST POINT ACGUSTIC RANGE 812E 0300 0308 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL	FREE-JET SPEED - FULL 66.09 M/SEC (269.0 FPS)
293	

)R')F	iG F	IN/	AL OR	A O	AU NU	/Ll	is in				•								ET SPEED (3es.0 FPS)
							143.6	146.3	147	147	146	ᆦ	146	4	14/4	147.	146	45	44	144.6	143	43.6	141.3	140.2	160.	TAMB 39.92 RELHUM 35.20	FREE-JET EL 117.35 M/SEC (
1 40.0 FT. ARC Fabl X03090 FODL X01400	DEGREES	140. 150. 160.					07.0 11.0 109.9	7 112.6	7 112.9	0 111.0	7 107.4	1 106.0	4 103.6	104.5	104.0	6 103.2	08.7 101.7 95.9 07.6 100.4 94.7	2 99.6	97.7	94.5	2 91.2	 	.0 75.6	3 50 6 58.	0 120.9 1	ALPHA SB59 PAMB 29.4500	SQ IN) - MOD
NT R.H. STD, DAY, SB MGDEL FJ-400-FM3DL BACKGRGUND FJB400-FMGDL	FROM INLET,	120, 130.					95.2 101.3 1	107.8	6 109.6 11	110.5	11.3	105.9 111.9 11	107.4 111.5 11	107.1 112.2 11	107.6 1/1.2 11	107.6 111.5 11	107.4 111.0 1	106.4	103.3 105.5	99.6 100.7	96.3	- T	0.19	74.8 58.9	118.2 122.9 1	N310 IAL	31.0 SQ CM (21.65
70 PERCE	ANGLES MEASURED	90. 100. 110					9 90.1 92.	9 90.0	.0 82.6 95.	.a 94.2 96.	.2 96.91	.1 97.2	2 98.6	66	5 99 6	5 100.1	100.6	1 100.3 1	.5 99.2 101	.2 96.2 98.	7 93.6 93.	- C 100 - C	4.08	74.6 73. 66.4 66	3 111.2 114.	TAPE NG.	_
DENTIFI		70. 60.					85.4 86.8	85.9 87.7	87.8 86.6	88.6 90.9 90.4	90.0	92.4 94.0	92.0	93.6 95.1	93.9 95.2	97.1 98.1	96.5 97.7	96.4 98.0 1	96.1 97.4	93.9 97.7	90.0 94.9	69.6 69.8 64.0 67.0	77.6 80.7	71.2 72.0 66.6 65.5	107.0 108.5	03-16-78 C41 ANECH CH	ACGUSTIC 2.2 M (
		40. 50. 60.	*				200	- 86.	.4 85.4 87.	7 86.8 88.	3 86.2 91.	6 91.1 93.		5 92.0 93.	2 95 6 97	4 95.1 97.	6 94.0 96. 7 95.2 96.	7 95.0 96.	2 94.0 96.	4 91.4 92.	.7 08.0 89.	.8 83.8 87.	2 73.6 75.	7 59 2 63.0	4 105.3 107.	TEST DATE	TEST POINT 0309
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									•	•										CORRECTION -	39.92 35.20	FREE-JET 17.35 M/SEC (
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40.0 FT.	080E0X	ES	160.		108.0 10	110.3	171.3	0.80	106.7	109.5	106.5	105.7	104.6	103.7	97.0	91.4	80.0	63.5	121.2		A 5859 8 29.4500	- (NI OS
TD. DAY, SB	XO3	DEGREES	140.		103.8	100	112	===	==	112	===	109	106	104	97.0	9 9	9	6	123.3	385.00 48.00	TAL PHA PAMB	312E 21.55
STD. DAY,	FMODL	INLET,	130.		100.0	104.6	109.3	109.6 110.3	109.9	111.5	111.8	111.6 109.7	109.6 107.5	107.5	86.0	96.3 89.2	82.9	67.7	122.4	/SEC)		- 5
0)	FJ-400-FMGDL		120.		93.3	0.00	05.5 5	04.3 04.6	02.0 06.0	06.6 08.3	08.4	08.4 07.9	05.5	04.6	88	- 96 - 10 5	87.7		118.6	OLITY (FT/SEC) DIAMETER (IN)	N310 ADH176	os S
Ξ. H.		EASURED FROM	110.			8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			•- •-	-		-		F	00.3	1	91.6	68.0	14 .0	VELOCITY	NG.	139.0
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70 PERC	DENTIFICA	ANGLES	90. 1		0	10 C	, ^	- 0	6 0	0 10	0 3	4-	9-	6 0 (i di v	- «	4	9	2.7 11	FREE	¥ V	
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			.09		9.08		94.	95.0 4.96.4	960	98.7	100.4	103.	103.2	103	101.3	2.2	96.0		113.3	. SIZE S 000 CA	TEST DATE	
			90	,	1 .	92.3													113.1	FULL S	TES	TEST POINT 0209
			9		20.5									• 1 •		• •	77.5	-1 -	105.3	MODEL/FULL INPUT 1.		TEST
			FREG	8885	1			l		ļ		1		1		1		-1	GASPL 1	E		7300 295 295

FLIGHT TRANSFORMED, SCALED, AND ESTAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X03095

IDENTIFICATION - FJ-400-FMCDL

							00	RI F	Gil Pi	<i>N</i>	AL)R	P. Q	A(U	GEAL	I.	Š														SPEED 385.0 FPS)	
PVI	164.3	164.4	164. /	164.6	164.4	164.6	160.0	90.00	166.5	166.3	165.6	165.7	166.0	166, 5	186.0	165.1	165.4	3 C C C C C C C C C C C C C C C C C C C	160.9							179.1		•	TAMB 39.92 RELHUM 35.20	FREE-JET 117.35 M/SEC (
. 160.	1			Į			- [- 1			- 1	63.5		1	_									9.0	1	Ģ	\$859 29.4500 R) - FULL	
140. 150.	ŀ			1			- [ı			ļ	76.6 70.0				-					•			. 7 96.9		SHIFT		(N 0 0 0	
	1			ł			- (- 1			- 1	80.7 76							•					101.2 100.7	4	FREQUENCY	I ALPHA PAMB	\$12E (1400.00	
120.	0	~ (0 4		. a	e (N) e	-	او	D 4	. 0	~	9	o on	a	e 1	0 4	9 V							98.4	-	F	N310 ADH176	2. SG CM	
110.	1			1			- [- 1			1	. 19 6. 13		į										2.00	102.8	8.061		9032.	
100.	72.	4.	9 9	78	78	90	9	5	9	82.	8 0 6	92.	91.	- 80.1	72.	67.	67.	4 - 7 d	<u>.</u>							e -	102	RATIO	TAPE AERG.	FT) SL	
.00	4	<u>ن</u> ا	٠,	2	•	ıp (ار د	9 0	80	-	٠. ٧	9 0	7	2.1 82.	2 -	-	Ġ.	. -	-							900	3 104.	DIAMETER	- 5	RANG 00.0	
9	1	٠. ا	- 0			10 (وام	, 4	9	-	6 0	4	8	79.8 82	- 4	4	۲.	- °								91.6	10	.	03-16-78 C41 ANECH	ACGUST . 5 M (
90.			4 (ار	0	₩.	N -	- e	N	9	6 0	9	9	90.5	- 0	6	(U (.	-								9.10		TEST DATE	731	
9	72.	73			76	79		6 6	9	20	9 0	9	2	77.1	69	9	9	28			•					90.0	98.0	,	TEST	T POINT 0309	
9	20	4	4 R	3	2	9		9 6	72	7	9 6	32	9	66.3	9 10	46	8	_	2 9	<u> </u>	20	2	2 9	0 9	0	ار 90.4	500			TES	1
FREG	2	40 (D C	2 2	9	8		- Q	8	63		28	160	2000	315	9	200	9 9	900	12500	2000		40000	50000	00000	GASPL	ZZ			ACDEL 030	

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										RIG F. P														37.40 46.30	FREE-JET SPEED . M/SEC (0, FPS)		
Selbe owner	40.0 FT. ARC				764		1.1 143.0	.0 146.4	2 148.0	. o .	3 46	1.6 147.5	5 147	0 146	9,	6 144	-0	5		. 7 140.03 0.03 x	:-	. 2 138.5		TAMB	MODEL 0		
FOR BACKER	46.0 FT.	X03100	ES	150. 160			111.0 110	112.6 110	6 10	112.6 112	90	112.6 110		- 0	9		100.00	97.6 96		94 .6 84	وماد	124.7 122		\$859 29.4800	80 IN) - M		·
CORRECTED	DAY, SE	FJ-ZER-FMODL	INLET, DEGREES	130. 140.	•		- %	06.0 111.2 09.1 112.2	09.5 112.6 10 2 112.4	10.1 110.9		7 109.	06.9 111.1	- 4	•	2 105.		.6 \$7.	38	86.55 855.90	• •	67.0 70.4 121.9 123.8		I ALPHA PAMB	\$12E (21.55		
E LEVELS	CENT R. H. STD. DAY, SB	MODEL FJ BACKGROUND	FRCA	120.			98.6	100.61	102.4	0 105.7	106.7	0 106.8 1	106.6	и ю	9.	103.0	100.5 89.2 1	80.3	9 60 50 60 7 00 7	a -		oi e		N310 ADH173	39.0 SG CM		
WO PRESSU	, 70 PERCENT	•	FE	160. 110			2 2	92.6 95	86 5	35	102	102	5				9 6	8	8 6	8 1 1 1	70.5 69	-	1 3	AERO. RDO	ARC 1		1) H
		CENTIFICATION	ANGLES	80. 90.				<u>ه</u> م	0 R	9	6 97	4 96.	4 98	96	2.5	1 97		.3 94.		4 84.		63.		сн сн	IC RANGE 40.0 FT)		
ANSFORMED	59.0 DEG. F.	-		70.			96.4 67.7	67.5 69.3	90.4	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	94.0	9.00 0.00 0.00	95.3	9 9 9 8 1 0	94.7	94.3	92.8	90.1	85.0 85.0	80.7	67.7	62.6		. 03-16-78 I C41 ANECH	ACEUSTIC 12.2 M (4		-
RIMI				50. 60.			3 86 . 7 6 7.	87.2 88.5 88.0 \$0.3	4 90,	93.0 94.7	9	0 0	93	. 2. 8.5.	0.05	3 95	90.4 93.1 88.5 91.6	.68	.7 86. .7 83.	.5 78.	63.2 65.3	.7 58.		TEST DATE	17 POINT 0310		***************************************
				40.	50 80	•	60.0 62.9	66.2 68.7	71.6	600.	82.4	84.5 7	96.0	85.4 85.6	84.3	61.3	7 6 .1 76.3	71.2	68.2	64.0	6	45.7			169		
					FREG 50 63 63	00 1 1 00 00 00 00 00 00 00 00 00 00 00	25	4 B	69	20.0	160	200	315	4 8 6 8 0 0	630	1000	1250 1600 1	2000	3150	4 1000	63000	90000			MODEL 0300	297	

					-		0	RI F	GI P	N/ 00	IL R	P/ Ql	JA	E I	is ry,									2 22		O, FPS)
								-																CORRECTION - YES CORRECTION - YES	37.40 46.30	PREE-JET 8 0, M/SEC (
		160. PWL		08.1 143.0	0.2 144	10.0 146.4	11.9 148.0	61 (- a	12.3 148.0	e i	o no	4		•	- اه	.0 142	96.5 141.9	8 140		1 137	2 138	CM .	REFRACTION TURBULANCE	TAMB 00 RELHUM	- MODEL
X03100	DEGREES	140. 150.		08 5 109.7 1	8.9 111.8 1	<i>a</i> i <i>a</i>	12.8 113.8 1	4 113.		0.	112.6	11.1 110.8	.8 108.7 1	106.9	8 105.9 1	0	2 100	97.3 97.6	8	85.9 84.6	7	99	123.8 124.7	46.00	ALPHA 3859 PAMB 29.4600	SIZE 21.55 SQ IN)
FJ-ZER-FMÖDL XO3	INCET,	120. 130.			2 104	2 100	02.4 109.5 1	4 110	.7	06.7 110.1 1	801.9	108	108	105.5 108.2 1	106	000	5	96.3 97.6	6	84.9 86.5	- a	2 67.	117.3 121.9	SCITY (FT/SEC)	N310 1/	SQ CM (
ENI R.D. 10N - FJ-	MEASURED FROM	00. 110. 1			2.40	95.0	3 96.6	100.2	101.0	102.4	102.8	99.6 103.0 1	103.2	103.7	8 101.9	3 101.4	9.70	3 94.0	7 87.6	7 82.0	4.07 E	1 63.4	110.6 114.1 1	JET VELGGITY FREE JET DIAM	TAPE NG. A	ARC 139.0
DEG. F., /O FENCE IDENTIFICATI	ANGLES ME	. 90. 1			91.5	9	92	5 94.9	1 96.5	7 100 1 1	4 96.8	1 97.7	5 92.8	97.6	1 97.3	1 97.9	200	94.6	2 S S S S S S S S S S S S S S S S S S S	4 84.6	4.77.4	9 63.6	1 109.7	Free	3	ACGUSTIC RANGE 2 M (&0.0 FT) /
98.0 DE6		70. 80		•	- 1	87.5	900	92.4	93.8 94	97.4 97	24.5	95.0 96	94.2	95.0	. 64 . 65 . 65	94.5	20.00 - 0.00	90.1	97.0 87.0	80.5	74.1	62.6	106.7 108	SCALE FACTOR CALC. 1.000	E 03-16-76 N C41 ANECH	ACOUSTI
		60.			3 96.	2 98	96	9 6	9	98.	9 6	200	7 80	2 95.	0 -	3 95	4	86.2 88.8	2 86	78	7	7 28	105.5 107.0	\$12E 000 (TEST DATE LGCATION	TEST POINT 0310
		ė.	63 80		60.0	90 90	99	- 	8	2	92	40	9 6	98	4	9	78	7.2.5	2	0.40	9	63000 51.9	GASPL 94.8	MODEL/FULI INPUT 1		MODEL TEST 0300 0

													OR OF		IN/ 00				- 1	: 1: .IT												EED 0. FPS)		
FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY. SB. 2400.0 FT. SL	IDENTIFICATION - FJ-ZER-FMODL	ANGLES MEASURED FROM INLET, DEGREES	40, 50, 50, 70, 60, 90, 100, 110, 120, 130, 140, 150, 160,	44.8 67.4 69.7 69.5 71.8 74.0 75.2 77.0 80.5 88.2 89.6 69.1 83.9 1	47.4 66.2 71.6 71.3 73.3 75.1 76.1 76.6 62.1 69.3 90.9 69.9 64.4 1	50.2 69.5 71.9 72.4 77.4 76.9 77.6 80.6 83.6 89.6 91.4 90.1 84.9 1	04.2 92.1 75.0 74.5 76.4 78 9 80.1 82.9 86.1 80.4 86.7 84.6 1	60.0 77.4 79.6 79.1 79.8 82.3 82.1 85.1 86.8 95.5 96.0 94.3 86.1 1	60.3 71.6 75.0 75.5 77.6 79.8 81.1 84.3 87.5 89.7 89.0 88.3 84.0 1	62.2 73.4 75.4 75.7 77.2 78.7 80.9 84.2 87.4 89.0 87.5 87.7 82.0 et a 75.5 77.7 77.2 75.4 et a 10.4 et a 25.6 75.6 75.6 75.6 75.6 75.6 75.6 75.6 7	62.7 73.4 75.2 76.0 77.6 79.4 80.8 84.3 86.7 87.5 87.8 84.7 76.9 1	62.6 71.9 74.8 74.7 76.5 79.0 80.2 83.7 85.8 86.4 87.0 82.0 74.9	61.4 72.1 74.2 75.1 76.7 78.5 80.2 83.9 84.7 86.0 85.5 80.5 72.2	58.5 /1.4 /4.4 /4.5 /5.5 /8.1 /8.5 62.5 53.5 54.5 53.4 /6.6 /0.8 57.7 7 7 7 7 7 1 8 1 6 82 9 63.3 8 1 6 77 2 68.7 1	55.6 69.1 74.2 74.0 76.2 78.3 77.6 81.0 81.5 82.0 79.3 74.9	51.5 66.6 71.1 73.3 75.4 76.5 76.2 78.6 78.7 76.2 71.2 62.3	48.8 64.2 69.3 71.8 75.1 76.8 74.6 76.8 76.9 76.9 72.0 67.9 67.2 67.1 1	37.4 55.2 60.9 63.7 69.0 69.9 66.9 66.7 68.3 65.3 60.9 53.5 39.0 1	29.3 45.9 54.7 59.0 61.1 61.7 60.5 61.0 61.0 58.9 52.0 40.0 19.1 1	15.4 33.2 43.5 48.2 54.1 54.9 50.4 50.0 49.7 46.2 37.3 21.6	5.7 9.6 12.1 12.0 7.1 6.3		00	00	00	00	00	71.4 84.2 86.9 87.3 89.1 90.9 91.6 94.8 97.4 101.2 101.4 99.9 94	76.1 90.0 93.5 95.0 96.3 99.6 90.7 100.7 103.2 106.1 105.	DIAMETER RATIO 8.061 FREQUENCY SHIFT -9	TEST DATE 03-16-70 TAPE NG. N310 IALPHA SB59 TAMB 37.40 Location C41 Anech CH Aero. RDG. Adh173 Pamb 29.4800 Relhum 46.30	TEST POINT ACOUSTIC RANGE SIZE SIZE FREE-JET SPEI 0 0310 731.5 H (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 0. M/SEC (0		
						-	1"	9	2	N	. 4	20	8	2 5	2	160	2000	315	400	200	000	1000	12500	2000		 			PNLT			ADEL O30	299	

												() ()	- 1		IN O				AG JA		is T								•						SPEED 289.0 FPS)		- August V
					•																													38.12 33.40	FREE JET		
O.				¥						140.	141.6	143	7	4 4	243		143	142	144.	142	4 4			Γ	_	140.1	_	_	138.0	33	134.8	185.6	1	TAMB			
4	FMGDL X01300	DEGREES	140, 150, 160,							103.6 106.7 106.6	108.8	109.8 105.	109.2 102.	107.8 99.	200.0	200	96.6 90.	£7.6 9G.	99.6 92.	98.9 90.	98.55		103.2 96.6 90.6	96.2 89.	94.5 89.	63.0 0.0	5 67 4 84	3 62.7	3 76.8	.6 71.5 69.		121.5 117.1 112.3		IALPHA \$859 PAMB 29.4850	- (2		
10	BACKGROUND FJB300-FMODL	ED FROM INLET,	0. 120. 130.							1.1 92.6 99.1	6.78	5 96.2 105	1 97.3 106	2 99.6 107	7.101.2	4 106 a 115	1 103.8 107	104.1 107	105.1 110	104.4 107	103.1 106.	102.9 106.	3 101.1	100.2 102.	97.8 100.	96.4	90.8 90.0	.8 88.5 88.	.1 83.7 83.	.8 78.1 76.	.0 65.7 61.6	6 114.9 120.2		N310 ADH187	S S S S S S S S S S S S S S S S S S S		ंद्रमुक
70 PERCENT CATION - MOD		ANGLES MEASURED	0. 100. 110							1	7 88.6	38.6	80.08	92.3	4 (101	96.1	96.0	97.2	97.0 1	200	96.00	0.00	94.9	93.8	7 92.9 95.1	87. S	94.0	<u>ه</u> .	74.3	7 62.7 61	4 108.3 111		AERG, RDG	JAP		
59.0 DEG. F.,		Ž	70. 80. 90						•	.1 63.9	2 95.5	.5 36.8	.6 87.7	2.89.2	0.000	- 6	1 92.9	.4 92.0	.1 93.4	.9 93.3	.8 93.4	. 1 93. 1		5 94.3	.2 94.2	. 8 93	7 89.6	.5 84.5	.3 62.8	9 74.8	61.4 60.1 61.	14.6 105.9 107.		03-16-78 C41 ANECH CH	COUSTIC		
			. 60							82.3	83.8	85.0	96.9	87.1	00 00 00 00 00 00 00 00 00 00 00 00 00	0.90	500	90.6	91.1	90.7	2 6	20 20 40 40 40 40) () () () ()	94.0	95.6	80.0	20.00	82.4	77.9	70.3	0.04.0 0.08.0 0.06.0	7 104.2 104		TEST DATE 0	9	i i	
			40. 50.							1 .	95	.6 93.	.3 84.	.7 85.	000		98	.8 87.	.3 90.	.3	9	e. e. e.	9 6	6 92	000	5 88 .	4 85.	7.9	.0 73.	. 1	25.3 53.4 49.3 55.(6 102.		瓦瓦	TEST POINT	3	
		i Thuas		FRO	9 6	90	000	125	200	250			- 1				Į.			ı				1			20000	91500	40000	50000	00000	GASPL			MODEL PASE		44.

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													PA QU										YES		SPEED 289.0 FPS)
•			PWL			138.8	Γ.	142.6	Τ,			143.9		-		_				_		156.8	REFRACTION CORRECTION - TURBULANCE CORRECTION -	7AMB 38.12 RELHUM 33.40	FREE-JET EL 88.09 M/SEC (
	110	ES	150. 160.		_	105.4 104.3	3 105	107.4 102.3	2 97	99.7 96.2	98.7	<u> </u>	100.6 98	101.4 99	96 6.96	1 . CO	9 9	90.7 93.	86.5 90. 81.4 84.	76.0	58.9 63.	116.5 113.6		3659 29.4850	SQ IN) - MODEL
י אין		INLET, DEGREES	130. 140.			6	601	0.40	0.		106.4 105	109.7	105.8	105.3	104.3 103	101.8	99.1 97	93.9 92	න ල ග ග ග	76.7 77	61.2 62	119.1 120.3	T/SEC) 289.00 R (IN) 40.00	T PAMB	SI ZE CM (21.55
	ON - FJ-300	MEASURED FROM	110. 120.			87.4 92.3	4. 94.	4 4	10	101.7 102.6	103	- 0 0 0 0	99.9 103.0	103	•	98.1 99.6		- 1	4 W		9	111,0 114.6	VELOCITY (FT/SEC) Jet Diameter (IN)	: NO. N310 RDG. ADH187	139.0 SQ
		ANOLES MEA	90. 100.			.88	.0 67.	89.4 90.1	. 7 92.		5 95.	6 6 8	95	2 97.	6 97	3 96.	7 10 10 10 10 10 10 10 10 10 10 10 10 10	7 90.	2 86.	6 76.	7 65.	109.0 108.7	FREE JET FREE	TAPE H AERG. F	RANGE 40.0 FT) ARC
	_		70. 80.			93.	4 87.	89.7 89.3	0 91	3 100.	5 94.	0 0	9 6	4 95.	- 21	1 98.	.7 97.	. 7 93.	0 00 0 00 0 00	9 78.	4 64.	108.4 108.6 1	N.E. FACTOR 3. 1.000	03-16-78 C41 ANECH CH	ACGUSTIC .2 M (
			50. 60.			7.6 86.	7.6 86.	89.89	5	. 1 92. 94.	.3 101.	6 95.	98	7 95.	.0 97.	98 6	6 97.	3 91	2 87.	79.	3 63.	07.8 108.5 1	JLL SIZE SCALE 1.000 CALC.	TEST DATE LOCATION	PGINT 12
			40. FREG	50 63 90		69.4	% .69 80 80 80 80 80 80 80 80 80 80 80 80 80	69.6	75.1	9 70	88.1 1	86. 2 86. 1	89.6	88.3	- 6.	9.00	87.9	80.5	78.5	21.0	55.8	#ASPL 100.0 10	MODEL/FULL INPUT 1.		MODEL TEST PGINT 0300 0011

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

								1	OR OF	G P	00°	AL	PQ	A(GE AL	7	e Y									:T SPEED . (269.0 FPS)	
																								24	38.12 33.40	FREE-JET 88.09 M/SEC (
		¥	160.7 160.6 180.0	159.7	167.2	160.6	162.1	160.8	160.8 160.9	160.8	160.8	161.0	161.0	160.3	300	159.3	157.6	156.3 155.6	!			174.7			TAMB		
		160.	77.0 76.4 71.8	•			• •		67.9					•		·ł						0.0	92.0			FULL	
10 '		150.	84.6 83.8 81.0	-1			- (•											90.8		6- L	SB59 29.4850	- (N	
X03115	DEGREES	.	Ì	7	0 10	2.	4	4	₹-		o o	9		ო -	- 1	m						97.9	•	Y SHIFT	ALPHA PAMB	ZE . 00 SQ	
fa Dr.	١.	30.	84.8 85.1 85.4	-	n o	0.	4 6	4	ro o	0	4 0	. 0	~	n c) O		-					102.4	φ	FREQUENCY	Y.	\$1 ZE (1400.00	
FJ-300-FMGDL	FROM INCET	120. 1	76.9 79.2 81.3	8	~ 9	0, 0	-	- 0	~ ~	9	۲ı	. 6	G,	O) P	- 6	-	oj i					r-	•	FRE	N310 ADH187	SO CM	
t	ASURED FR	ė	- 4 4	6	0.4	0	0	1 0	G 4	0	æ «		9	N T	4 4	0	- (9.				10 ED	6	. 061		9032.2	
SATION	MEASU		2.6 73 3.6 75	0	- 4	0	, ,	1 01	a -	0	٠. ٥		9	D (<u>ه</u> د	<u> </u>	1 0	0.				7.2 96	_	6	TAPE NO AERO. RDG	*	
I DENT I FI CAT	ANOLES	<u>-</u>	17 0.1		N 10			D 10	40		- c) 4	6	6 0 f		. 0	01	0				0.0 69	0	R RATI	AEF	រីគ FT) នL	
106	*		.6 70 7 72 3 73	2	o e	9	ماره	0 10	ω «	~	- c	0	6	W I	0 6		ID	a.				40		IAMETER	¥ .	TIC RANGE 2400.0 FT)	
		•	6 70 4 71 73				1									1						90.00		0	1-16-78	COUSTI	
			9 69. 9 71. 6 72.				ı						l			1						0 0 0 0 0 0			82	AC 731.5	
		8	69. 70.	73.	× 5	85	2	4.	74.	78	15 K	36	74.	֡֟֝֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֝֟֓֓֓֟֟֓֓֓֓֟֓֓֟֟֓֓֓֟֓֓֓֓֓֟֓֓֓֟֓֓֡֓֡֓֡	0 0 0	49.	32.		. '			8 9	97.		FEST DATE		
		90	68.4 70.0 70.6	71.	7.2	62	13	5 65	73	73.	4.5	3 5	71.	67.	, A	4	2					93.0 93.1	4		TEST LOC	TEST POINT 0311	
		ė	48.6 46.3 7.00				-1			. i	•			•	•		•					78.58 82.58	•			4	
		FRED	S & 8	9	125	800	220	400	200	900	1000	1600	2000	2500	4000	5000	6300	8 000 1 0000	2000 22000		1	OASPL PNL			- 1949 .	MODEL	

07/19/79 17.269											C	OR OF	IG P	INA DO	AL R	₽A QU	GE		ş							N. C		FREE-JET 8PEED M/SEC (305.0 FPS)		
egilah bercelbr i furi e gaberten	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 58 40.0 FT. ARC IDENTIFICATION - MODEL FJ-400-FMODL X03120	BACKGROUND FJB400-FMCDL	ANGLES MEASURED FROM INLET, DEGREES	50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.					.0 61.3 62.7 63.6 65.0 87.2 69.5 91.9 99.1 103.5 106.5 1	3 84.5 84.6 86.2 88.1 88.9 91.4 95.4 105.3 108.2 108.1 101.7 1 4 85.1 85.5 87.3 89.2 90.1 92.5 97.0 108.8 109.5 106.9 96.6 1	5 86.6 86.6 91.7 90.3 91.7 94.6 99.1 106.7 109.3 105.0 94.2 142	.1 67.1 66.1 69.0 91.3 92.7 96.2 101.2 107.2 106.6 101.3 92.2 1 .2 68.2 68.2 90.3 92.7 94.1 97.8 102.2 107.6 106.5 97.9 90.0 1	.6 94.6 96.4 97.2 98.3 100.0 102.9 106.6 115.5 114.6 103.5 96.9 149	.5 89.0 89.5 91.6 94.2 95.6 89.5 103.3 107.1 106.3 97.3 90.0 142. 8 89.1 89.4 91.0 93.1 95.0 99.6 103.9 107.0 104.2 95.9 89.6 141	.5 90.8 91.1 92.4 94.0 96.6 100.1 104.6 109.7 106.1 97.5 91.0 143	. 1 90.3 90.8 92.1 94.2 96.1 99.8 102.9 105.5 103.1 96.0 88.8 141	.3 91.4 91.3 92.6 94.7 96.1 100.1 102.4 105.1 102.4 96.3 69.0 141 .6 91.8 91.3 92.5 95.1 96.3 99.3 101.9 103.8 101.2 95.2 69.6 140	.1 92.5 92.1 93.1 94.7 95.1 98.9 101.0 102.9 100.1 95.2 89.4 140	.5 94,4 92,9 93,7 95,3 94,6 97,8 99,6 101,6 99,4 94,9 89,2 140 n 92 a 93 o 94 1 94,7 93 o 96 a 97,5 99,5 97,0 93,2 87,0 139	7 2 30.0 92.0 94.4 95.4 92.8 95.5 96.1 90.1 94.3 92.2 96.	7 85.2 85.5 89.8 90.4 87.5 87.3 91.1 89.7 87.8 86.2 84.0 137	.3 62.5 64.6 65.0 65.6 64.5 85.8 66.1 66.5 65.4 61.8 76.6 1 6 77 5 79 4 83 3 84 0 79 4 81 2 83 3 82 6 80 9 76.3 75.2 1	.0 70.4 73.0 75.1 76.9 74.6 74.3 77.9 75.3 74.2 71.0 68.7 135.	. 5 64.1 66.7 67.2 60.1 68.9 67.6 72.8 67.9 67.4 64.5 62.6 134. . 9 58.4 61.8 60.4 62.8 61.3 61.6 65.0 61.0 60.7 56.0 54.2 134.	02.4 103.4 103.9 105.4 106.9 107.7 111.1 114.5 120.0 119.6 115.3 110.0 155.9	TEST DATE 03-16-78 TAPE NO. N310 IALPHA SB59 TAMB 40.62	C4! ANECG CH AERO, RDS. ADHITO FRID ES.4500 NELIGIT OF	INT ACCUSTIC RANGE 12.2 M (40.0 FT) ARC 139.0 SQ CM (21.55 SQ IN) - MODEL 117.35		
				9	7 Y Y C	63	00.	200			80.4	73.0	90.7	77.2	800	81.7	60 63 64 64 64	96.2	88.4 4.2	79.8	25000 73.9	31500 72.2	50000 61.1	63000 55.9 80000 49.4	OASPL 93.4 1			MODEL TEST 0300 03	TEMATN	303

17.209						00	RI F	IGIN PO	AL OF	. P	PAC LUA	ie '	is ry											SPEED 385.0 FPS)
07/19/79				<u>.</u>		9	90	9 ^ @	9	► 16	7	m 0	୯ ୯	4 9	, E. G	e 19	U 4	-	1. 50 N	•	Ф.	CORRECTION - YES CORRECTION - YES	M 32, 90	FREE-JET SPEI 117.35 M/SEC (385
	FT. ARC			. 160. PWI		.0 137.	.9 140	5. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	140	105.0 147.	98.4 142	100.2 143 98.8 142	98.9 142	101.3 142	102.1 142	101.4 143	96.4 142	89.3 141	76.1 139	63.7 13	113.6 156.	REFRACTION TURBULANCE	\$859 TAMB 29.4500 RELHUM) - MODEL
	DAY, SB 40.0 FT.	X03120	DEGREES	140. 150		101.3 104.4	108.6	_,	104.7	113.0	103.2 97	103.9 100	103.7 99	102.5	101.8 100.6	60 60 60 60 60 60 60 60 60 60 60 60 60 6	90.7	85.3 83		60.9 59	118.1 114.7	385.00 48.00	IALPHA \$B59 PAMB 29.4	SIZE 21.56 SQ IN)
	STD.	FJ-400-FMCDL	ED FROM INLET,	120. 130.		7.26 2.16	.3 102.	00	- -				0.0		103	-		1	79.0 73.7	1	114	OCITY (FT/SEC) DIAMETER (IN)	N310 ADH178	.0 SQ CM (
	TRANSFORMED MODE 70 PERCENT R.H.	DENTIFICATION - F	MEASUR	100. 110.		4 86.	.0 67.	90	7 93.	2 95.	.1 97.	.7 98. .7 98.	7 89.	6 100 8 9	0.00	2 97.	93.	.0 87.	76.3 74.4	7 63	108.4 110.5	JET VEL FREE JET	TAPE NO. AERO. RDG.	ARC 139.
	FLIGHT TRAN DEG. F., 70	IDENTIF	ANGLES	90. 90.		10 10	.6 37	88. V.	100	60	9 9		8. 1. 96. 1.	- R	76 7	6 97	4.6	.6	79.7 79.9	9 65	0 109.0	OR FREE	H CH	IC RANGE 40.0 FT)
	59.0 D			. 70.		96.7	96.7	87.4 88.9	91.1	6 92.7	101.0	94.3 94.3	96.1	96.3	90.00	98.0	0.00	88.4	6 81.0 7	62.9	6 108	SCALE FACTOR CALC. 1.000	TE 03-16-78 3N C41 ANECH	ACOUSTIC 12.2 M (
				50. 60	•	~	~	0 4 1	9	4.4	7 101	.	0 0	r 0	o c	4 R	ო -	4 (78.1 80.	0	109.9 109.	J.L. S1 ZE 1.000	TEST DATE LOCATION	TEST POINT 0312
				9			69	969	3/5	9.0	8 8	87. 86.	8 8	2 8	9 6	8 6	88 6	90	2 2 8	29	101.8	MODEL/FL INPUT		DEL TEST

									0		P	90	R	Q	U									40.82 32.80	FREE-JET SPEED
	. 5	58.7	50.00 50.00	56.6	65.0 60.0 60.0	60.0	61.4	60.4	60.3	60.7	60.6	60.7	61.7	60.4	60 8 8	59.6	87.8	56.8 56.0			74.3			TAMB A	
	160.	71.91	71.3	70.8	77.6 1	70.1	6		ю. -	a	-	0 6		9	39.51		_				62.6	96.8			
	150.	61.9	80.7		0 <	7	-	73.4	<u> </u>	-اب	•	oi a	4	ĸ.	50.6 24.6	16.8					9.0		(G)	SB59 29.4500	
DEGREES	140.	-	0.00 0.00 0.00			91.2	- 1		79.3	1			1		0 4	30.4					98.0		SHIFT	ALPHA	je je
- 1		0		او	10 e		_[9 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ю ч	- 60	10	.		_	66.3	ماد	-				0.0	6	FREQUENCY	¥ .	SIZE
FROM INLET.		7.	- 4		u c	<u>, , , , , , , , , , , , , , , , , , , </u>	D	– ო	٠.	2	4	• -	6	0	0 0		•	7.1			70. 4.4		FRE	N310 ADH178	
MEASURED FROM	10.	8/ 9.	- 0		7.4 BG	, a	4	30.0	0.6	200	N	oi e	-	Ø	1.1 69	<u>-</u> က	.7	•			9.0	10	. 061		
MEASUR	90.					-	20	N 00	- 0	2 0	0		-		<u>-</u> ۱	0	0	0			66		•	TAPE NO AERO. RDO	
ANOLES MEA	_	6	0 0	9	<u>ا</u> ۲	, ()	ai.	. 6 77	<u>~</u> 1	۱۰	N	\ •	9	6	ni c	9	e.	•			0.		R RATIO	AER	l tu
•	· · ·	1	- K		25.5	5 77		77	77	28	78	78	78	72	2.2	57	Ş				900		DIAMETER	5	ACCUSTIC RANGE
	8	ı	72	- 1			- 1	. //. B //.		1			1									100.	5	-16-78 1 ANECH	USTIC
	6	١.	•	• •1				79.8		ы.			. I		•	-1 -					90.0			82	VCC
	60.		-	1	-		-i	77.5		., .				-				_			900			TEST DATE	
	90			1				75.6					.1 .								99.0	-7 -		TEST	TEST POINT
	Ģ.	8	o -	. 0	ω r	9 19	6	- O	10.0	20	^	ن د م	100	۲.		ماه	10				00	14			TEST

									1	OI OF	RIC F I	0	NA POI		PA QU			S Y							- YES - YES		ET SPEED
		PWL			146.0	147.7	148.8	152.3	153.5	163.6	53.4	152.2	151.00 4.03.	150.0	149.6	140.U	148.0	146.6	145.5	43.8	143.2	141.2	141.9	164.0	TION CORRECTION	TAMB 37.04 RELHUM 47.40	FREE-JEI
9		150. 160.		:	112.5 112.4	14.3 113.0	17.4 113.0	17.5 114.7	115.	16.9 115.5		1			09.2 105.6			- •		90.3 90.3		80.6 78.4 74.9 73.9	6	127.7 124.4	REFRACTION TURBULANCE	3859 29.4900 R	
. i	ET, DEGREES	130. 140.		!	05.6 109.6	2 111	. 3 114 4 117	15.2 117.6	118	6.3.116.7		_			13.9 113.3		7		_	1		84.3 83.6 78.4 77.6	6	126.5 128.8	SEC) 0.	I ALPHA PAMB	SIZE
- FJ-ZER-FMGDL	URED FROM INLET,	10. 120. 1			98.8 1	100.7 1	102.5	106.4	107.9	90.00	10.0	109.6	109.7	0.00	106.2 108.5 11	107.7	106.3	102.2	7 100.0	93.4	5 88.1	2 78.7	.4 72.5	16.9 120.4 12	/ELOCITY (FT/SEC) JET DIAMETER (IN)	. N310	
CATIO	ANGLES MEASUR	. 100. 1	,	•	94.2	94.1	935	0.0	6.30		102.1	101.7	102.1	101.8	102.0	101.8	100.8	9 60	95.35	2 6	83.7	7 78.9 78	65.7	113.4 1	FREE JET VEL FREE JET	TAPE NO AERO. RDG	<u> </u>
IDEN	2	80. 90			7 91.	6 93.	60 0 60 0 60 8	2 6	8 97.	4	000	7 99.	9 100	0.00	5 100	200	3 101.	90	8	9	6 87.		0 65.	110.9 112.5	FACTOR F	-16-78 1 ANECH CH	ACQUSTIC RANGE
		60. 70.			8	.7 89.	10 c	6 92.	9 94.	. 2 9. 9	200	.6 97.	2 38	2 97.	.2 97.	. 20	.0 98		83.	4 87	1 82.	72.5 75.6 66.3 69.3	5 63.	109.4 109.4	ZE SCALE CALC. 1	03-1 C41	ACOL
		40. 50.			98	1 87.9	99.0	9.0	8 92.1	200		8 98.5	80.00	2 10 10 10 10 10 10 10 10 10 10 10 10 10	9 97.2	2.790	6 94.1		4 87.8	0.00	3 74.8	58.2 69.7 52.4 64.7	9 56.5	98.0 108.1 1	MODEL/FULL SI	TEST DATE LOCATION	TEST POINT

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07/19/79 17.269										OR OF	IGI P	NA 000	L R	P/ QI	AGI JA	EU	IS IY												:		FREE-JET SPEED M/SEC (0, FPS)
	. 3L			160. PWL	S.	a	-	-	0 0	2 10	30 a	o io	9	7 0	91	o	ю	39.0 162.3 19.6 161.9		159.4 158.8	160.0						96.0 162.0	20.00 20.00 20.00		TAMB 37.04	FULL 0.
TED SGUND PRESSU	Y, SB 2400.0 FT.		T, DEGREES	. 140. 150.	5 93.6 92.6	5 95.9 93.9	4 96.2 93.9 8 97.4 95.3	3 97.1 95.0	5 98.3 94.6 57.8 93.4	5 96.0 69.7	9 94.5 87.8	3 90.5 83.5	8 89.0 81.8	8 35.6 77.9	3 83.6 76.4	2 77 2 70.2	0 72.9 63.7	7 55.1 41.0	7 40.3 22.4	æ							7 106.5 103.2	8 109.2 104.2	FREQUENCY SHIFT -9	IALPHA SB59 PAMB 29.490	S12E (1400.00 SQ IN) -
2	NT R.H. STD. DAY,	-	SURED FROM INLET	110. 120. 130	5 83.7	5 85.3 94	87.6 95 8.10 1.05	90.1 96	89.8 95	8 60.0 84 80.1 94	1 90.0 94	89.0 92	6 97.7	6 86.4 88	0 84.7 87	20 07	76.8 77	3 72.0 69 6 64.5 53	5 53.0 50	35.9 35.6 29 10.2 10.1							7.6 100.5 105	103.9 106.0 109	8.061 FREGI	E NO. N310	9032.2 SQ CM (1
	O DEG. F., 70 PERCENT		ANOLES MEASU	ด้	.0 76.3 77.	.3 77.8 78.	.9 79.1 80.	6 81.4 82.	6 83.8 84.	4 81.5 83.	.3 82.1 83.	0 61.2 82.	2 81.2 82.	1 61.6 62.	.4 82.3 81.	9 79 3 78	.9 77.7 74.	3 65 0 64	4 57.6 53.	8.4 40.1 38.6 2.1 14.1 14.5							8 93.6 94.	1.5 102.9 101.8	DIAMETER RATIO	O TAPE	1C RANGE 2400.0 FT) SL
	59.0 D			60. 70.	.7 72.0	.6 73.6	.9 74.6 1 76 8	3 79.6	.3 81.1	78.9	.5 79.1	.6 77.4	.8 77.4	.2 78.0	.4 77.5	A 74 5	6 71.3	ب ا	0.20.0	.3 32							9.2 90.0	95.2 97.1 100	-	TEST DATE 03-16-76	ACOUST 731.5 M (
308				40. 50. FREG	47.3 69.	49.6 70.	52.7 72.	64.6 78.	61.5 77.	66.4 77.	64.4 75.	65.1 74.	64.6 75.	62.5 /4. 60.7 73.	58.1 70.	54.8 68.	44.1 62.	38.7 56	16.6 34.		000	12500 16000	000	500	000	000	74.7 86.	PNL 79.2 91.7		TEST	MODEL TEST POINT 0300 0313

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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE	EG. F., 70 PERCENT R.H. STD. DAY, SB. 40 Dentification - Model FJ-400-FMGDL Background FJB400-FMGDL	ANGLES MEASURED FROM INLET, DEGREES	FREG 40. 50. 70. 50. 30. 100. 110. 120. 130. 140. 150. 150. 150. 150. 150. 150. 150. 15	82.9 63.6 64.9 65.7 67.1 66.6 91.6 94.5 101.4 106.3 109.7 1 63.5 84.7 84.8 86.7 86.3 89.4 91.9 96.4 104.0 108.4 111.1 1 64.6 85.9 85.9 87.5 89.6 90.2 92.7 97.7 107.8 111.2 111.6 1 54.9 85.2 87.5 87.2 88.6 90.5 92.4 94.5 99.5 110.4 113.2 111.4 1	68.1 86.8 88.3 88.4 91.4 92.1 94.0 97.2 101.6 112.0 115.1 110.5 98.4 73.8 86.6 89.6 89.4 90.5 93.1 95.0 98.7 103.9 112.7 115.9 108.8 97.9 76.3 88.5 91.3 91.3 92.1 94.2 96.4 100.0 105.3 112.6 115.5 107.1 97.5 77.4 91.1 93.4 92.6 94.2 96.1 97.2 101.4 105.1 112.4 116.3 107.0 97.9	79.8 69.2 91.0 91.8 93.6 96.0 97.6 101.5 106.3 112.1 116.1 106.8 96.0 1 80.3 89.3 91.6 91.4 92.7 94.8 97.7 102.1 106.9 112.5 115.2 105.3 97.9 1 81.5 90.8 91.8 92.3 93.6 96.0 98.9 102.3 106.8 112.7 113.6 106.0 97.5 1 84.5 91.4 91.9 92.4 94.5 96.3 99.0 103.2 107.4 111.8 112.4 105.1 97.4 1	86.0 92.3 93.8 92.6 93.6 96.0 96.9 103.1 106.6 110.6 110.6 103.5 95.6 90.5 95.6 94.6 94.6 94.6 96.5 96.5 103.1 106.4 110.6 110.1 102.5 95.0 99.6 97.1 98.6 96.3 95.6 98.1 102.8 105.9 109.0 108.0 100.7 94.1 98.6 97.4 96.3 96.1 98.1 97.8 98.3 102.0 105.0 107.7 106.3 99.2 93.2	86.0 94.3 97.4 98.2 99.5 99.4 98.3 101.6 104.2 106.7 104.9 98.4 93.0 1 84.4 92.5 94.4 96.1 98.4 99.3 97.7 99.9 101.8 104.0 102.3 97.0 92.2 1 82.8 91.2 94.3 95.1 97.7 99.2 97.1 99.3 100.2 102.7 99.9 95.6 91.5 1 77.6 95.4 90.7 93.0 96.9 97.5 95.2 97.6 98.6 99.4 96.6 93.8 90.0 1	0 85.6 86.1 69.1 94.1 95.6 93.3 93.4 96.4 95.3 92.9 90.7 66.6 142 8 81.7 85.6 86.1 88.9 89.6 89.3 90.9 93.9 93.9 31.5 85.1 83.4 142 6 76.0 80.3 82.2 86.6 87.3 84.2 85.8 88.3 88.2 87.2 80.1 79.3 142 7 70.8 72.7 75.8 79.2 80.2 78.9 78.7 83.8 81.2 79.8 74.4 72.5 140	57.2 64.9 66.2 69.5 70.3 71.7 73.2 72.4 78.6 73.8 73.3 66.6 66.7 139 51.0 56.7 60.7 63.6 63.5 65.4 64.7 66.2 71.4 67.1 67.8 60.1 56.5 139 96.9 105.0 106.5 106.6 108.1 109.3 110.0 113.8 117.4 123.1 125.4 120.1 114.1 160	TEST DATE 03-16-78 TAPE NG. N310 IALPHA 5859 TAMB 41.16 LGCATION C41 ANECH CH AERG. RDG. ADH177 PAMB 29.4500 RELHUM 33.20	MODEL TEST POINT ACGUSTIC RANGE 0300 0314 12.2 M (40.0 FT) ARC 139.0 SG CM (21.55 SG IN) - MODEL 117.35	30

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FJ-400-FMODL	4	130.		98.5	103		108		60				107		98	L	50		65.	120.2	(FT/SEC)			90 0
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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													OR OF	IG	N O	O	R	Q	JA	E I	Y	•										JET SPEED C (386.0 FPS)	
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FMODE	INLET,	130.	85.3	87.2	88.2	87.6	A	88.5	88.1	0.70	86.9	64.7	82.4	61.4	78.2	71.3	- 0	45.6	24.9									98.0	104.0	FREGUENCY		CM C14	,
FJ-400-FMGDI	FROM	120.	77.5	79.5 81.6	83.5	63.7	. K.	65.2	96.2	0.00	85.3	94.6	82.0 82.0	61.3	79.6	74.6	3.6	54.0	37.2	10. 10.		•						96.2	103,5	•	N310 ADH166	.2 30 0	
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT #.H. STD. DAY, SB 40.0 FT. ARC

											00)R)F	IG F	11N 20	IA OI	R	P	'A	GI AL	E 17	ei YT																	FPS)		
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FT. ARC			160.							1 119.4		113.3	113.8	115.2	115.9	15.6	115.4	114.2	11.3	9 6	0.80	106.3	105.5	104.6	103.6	5 8		95			74.0	5 66.1	124.8	BINESTA	TURBULANCE			- MODEL		
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70 PERCENT R.	- NOILE	ANGLES MEASURED	00. 110.							ď	۰		4	-	.0 102.	.6 103.	.7 104.	3 105.	4 c	- ·	- °	-	4	ъ.	-	, c	·	8	.5	.7 86	7 4	8.6 67.4	3.5 116.7	į	JEI VELOG FREE JET I		TAPE NO. AERO. RDO.	RC 139		
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			FREG	20	83	8	001	123	000		212	4 5		630	800	1000	1250	1600	2000	2500	3150	2000	6300	8000	10000	12500	20000	25000	31500	40000	20000	80000	GASPL		**			MSDEL 0300	31	L

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89.0 DEGO. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. AN IDENTIFICATION - FJ-ZER-FMODL X03170 ANOLES PRESURED FROM INLET, DEGREES 60. 70. 80. 90. 100. 110. 120. 130. 140. 190. 160. 160. 160. 190. 190. 140. 190. 160. 190. 190. 190. 190. 190. 190. 190. 19							D N		.	- α		. 60	- 0	6 4	: N	33	· 60 i	n w	•	10	0	. 0	CORRECTION -	36	FREE-JET S O. M/SEC (
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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59.0 DEG. F.			6 G. 70.					.5	 2	67.2 67.2	.3 68.		9	.00		2 92.		.0	.3 97.	9 6	.7 95.		.0	.7 82.	67.1 69.4	66 64	105.9 106.2	TEST DATE 03-1 LGCATION C41	0	•
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79 17.289						OR! OF	GINAL POOR	PAGE QUAL	is TY			YES YES		SPEED 377.0 FPS)
LEVELS		DEGREES	140. 150. 160. PWL		103.2 106.6 105.7 139.8	08.1 110.4 10.3 110.8 11.3 110.0	11.8 108.2 106.0 1 11.9 106.8 104.7 1 10.7 106.3 104.6 1 09.8 105.5 105.3 1	10.2 106.4 106.5 146 10.7 106.6 107.3 146 11.1 107.2 106.4 146 09.7 106.4 106.6 146	06,5 105,0 105,3 146,06,5 103,6 104,6 146,05,3 103,1 104,3 146,03,9 102,1 104,4 146,	03.0 103.0 105.3 1 00.6 101.0 103.5 1 94.7 96.9 100.7 1 96.9 94.6 95.0 1	95,55 94.3 98.5 145.7 79.8 143. 143. 145. 1 72.7 78.2 142. 142. 156.2 62.9 66.4 141.	377.00 REFRACTION CORRECTION - Y 40.00 TURBULANCE CORRECTION - Y	ALPHA \$859	SIZE 21,55 SQ IN) - MODEL 114,91 M/SEC (
TRANSFORMED MODEL SOUND PRESSURE		MEASURED FROM INLET,	00. 110. 120. 130.		7.5 88.1 92.8 99.	.1 69.5 95.0 .5 91.3 96.7 .2 92.2 99.0 .0 94.7 101.7	6 95.8 102. 8 97.2 103. 8 98.4 104.	7 101.2 105. 7 102.0 106.7	.4 103.3 106.7 106.4 102.1 105.4 104.1 105.4	99.8 100.7 103.6 105.9 10 99.2 100.0 102.2 103.4 10 90.8 98.6 98.6 97.3 9 93.7 92.8 98.0 98.6 97.3 93.0 94.7 94.7 94.7 94.7 94.7 94.7 94.7 94.7	1 96.8 89.5 86.8 3 79.7 85.1 80.9 5 73.0 79.6 76.2 0 66.8 69.8 66.4	JET VELOCITY (FT/SEC) FREE JET DIAMETER (IN)	TAPE NO. N310 AERO. RDO. ADH165	ARC 139.0 SG CM (2
FLIGHT	. U UEG. F.,	ANGLES	60. 70. 80. 90. 1		.3 86.8 87.9 86.9	.3 66.6 69.4 66.7 .0 69.1 69.7 69.6 .9 90.2 91.4 90.7	.6 92.7 93.2 93.3 .2 94.3 94.1 94.6 .9 95.0 95.9 96.3 .3 96.4 96.2 96.7	.3 96.2 95.6 96.2 .5 96.2 96.6 97.2 .0 97.0 97.7 98.4 .0 97.5 97.3 98.3	.9 97.1 96.2 99.6 1 .4 97.9 99.2 100.6 .7 99.8 101.1 100.3 .5 101.9 102.9 102.3	.4 102.6 101.6 101.2 .3 99.9 101.3 101.4 .4 99.2 101.1 100.2 .4 97.2 99.7 93.0	. 4 90.0 91.0 90.5 . 7 84.2 83.1 83.1 . 4 76.6 74.9 74.8 . 7 68.5 67.8 68.8	SCALE FACTOR FREE	03-16-78 C41 ANECH CH AE	ACCUSTIC RANGE 12.2 M (40.0 FT) A
322			40. 50.	50 63 60 100	76.3 90.4	76.3 90.4 77.1 91.6 77.1 92.4 77.1 93.1	77.1 94.5 82.4 94.0 85.3 95.4 86.6 98.0	89.0 96.7 89.3 97.4 91.0 97.9 93.8 99.2	92.8 97.6 96.2 100.9 95.4 102.2 1	95.2 101 93.3 100 91.8 99 86.0 95	68.3 74.8 60.8 67.4	MADEL/FULL SIZE	TEST DATE LOCATION	MODEL TEST POINT 0300 0318

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

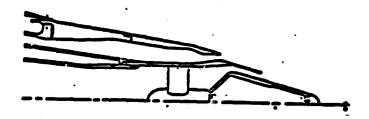
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:J-400-FMGDL	RED FROM INLET,	. 120.	.3 78.0 87.1 .2 80.3 87.7 # 82.0 87.7	63.8 89	04.4 88 1 85.4 88	1 86.1 88 2 86.0 88	2 87.3 88		85.1 88	84.1 84	81.6 82	79.6 79	73.7 70	66.1 61	04.0 0.70	11.1							. 2 96.9 100.0	104.0	061 FREQUENCY	N310 I	S1ZE 032.2 SQ CM 11400.00	
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		20.	7 72.6 73.2	74.5 75.	74.0 76.	77.7 79.	5 76.4 77.	77.55	76.4 76.	79.4 61.	78.1 81.	75.7 78.	67.6 71.	59.0 63.	46.2 26.6 36.3	9.							9 90.7	97.3 100.6		TEST DATE	EST POINT 731	
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6.1.5 Measured Acoustic Data for Model 4

 $R_r^0 = 0.853$ conic outer nozzle $R_r^0 = 0.805$ conic inner nozzle $A^1/A^0 = 0.526$ without struts in outer flow



														IAL OR											SPEED 0. FPS)	
																								39.50 28.00	FREE-JET M/SEC·(
40.0 FT. ARC				Ę				4 146.2	5 150.4		6 153.5		7 152.5	6 152.0	3 150.0	7 149.7 6 146.9	2 47.5	146	2 144.6	143	142.4	6 139.6	4 163.9	TAMB		
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DAY, 88 4	J-ZER-FMODL	, DEGREES	140.					6 110.0 1	3 116.2	- -	130.		119	0 116.9 1	16.21	1,0,1	100.1	105.9	- - •	97.6	. 0. 4	76.8	128.5 1	IALPHA	SIZE 27.55 SQ	
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X K	MODEL. BACKGROUND	SURED	110.					96.4 4.8	97.7	100.9	103.01	104.7	105.3	105.1	105.6	105.8	104.3	101.6	8.05 87.0	92.3	4.4	21.0	116.4	₹ 26.	2	
70 PERCE	•	ANGLES MEA	100.		-			2 8		98	.86	9 100. 102.	102	102	105	102. 102.	101	9 100		20. 8	93.6)	113.	TAPE AERG.	T) ARC	
59.0 DEG. F.,	IDENTIFICATION		70. 60. 90					6 69.7	85.1 82.1	4 95.0	· · · · · · · · · · · · · · · · · · ·	. 6 . 97 . 2 . 2 . 3 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	3 98.41	1 98 5	9 97.7	.3 98.1 1 .2 97.9 1	1 98.5 100	92.0	.3 97.5 .2 95.9	.7 93.0 A A7 E	92.0	3 69	.3 110.4 1	03-10-78 C41 ANECH CH		
			.09					69.1	20.0	93.6	7.7	9.00	96.0	9.00	97.4	97.4 98.0	86.8	4.4	60 60 60 60 60 60	86.7	78.6	0.00	109.5	TEST DATE 0	51	
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				7. 0.00 0.00	90	100 125	160 200	1		i					1		ı			ļ		63000 59	_		MODEL 1	325

								0	OR!	GI P	N/A DO	IL R	F!	AG JA	E '	1817											N - YES N - YES			-JET SPEED	M/SEC (0. FPS)	· **	の こうか かくし こうか (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Company) (Manager Compa
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SURE LEVELS	X04010	DEGREES	140. 150.			•	10.0 112.5	12.1 114.3	2 2	10.1 117.3	0 15	19.1 117.8	2	.9 113.	.52	100	4	10.1 107.5	0	04.1 102.1	2	.1 89.	89.0 84.5 82.8 79.5	.8 73.	ď	28.5 127.4	46.00		IALPHA \$859 PAMB 29.4900	ZE	(NI 08 8		
STD. DAY. SB	FJ-ZER-FMODL	INLET,	120, 130.			-	1.1 106.6 1	4 109	611 B	4 115	0 116	9	0 - 0	6 116.8	.2.15.4	6 114 3	3 112.9	2.011.0	1 107.3 1	7 105.6	8 97.3	. 5 95.1	83.6 83.6	.6 77.4	73	120.4 127.1 13	(FT/SEC) ETER (IN)		N301 ADH159	18	SG CH (27.5	***	
MODE!	ION - FJ	EASURED FROM	. 110.					96.6	8 97.7 103 7 98.6 104	100.9	103.0		100.3	105.1		9.00	105.2	.6 104.3 107 .0 103.6 105	101.5		92.3	89.5	84.4 78.0	71.0		116.4	T VELOCITY (FT/SEC) E JET DIAMETER (IN)		R NG.		177.7		Leading and Table Construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construc
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 56 2400.0 FT. SL

					0	RIGINA F POO	L PAG R QUA	E IS				9	FREE-JET 8PED H/SEC (0, FP8)
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F.J-ZER-FMOD	ARED FROM INLET,	120.	83.7 86.6	0.00 0.00 0.00 0.00	88.1 89.1 87.9 85.8	86.2 84.7 83.3	76.0 74.3 69.6	24.20			104.7	N301 ADH159	8
L		110.	78.7	85.3 85.3	65.9 65.9 65.0	84.0 82.9 82.0 79.6	77.7 74.2 67.9 61.9	51.3 34.2 7.8			96.0 102.0 102.5 7.129	RDG.	9032, 2
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								OR OF	IGII	NAI OOF	_ F)Aq	GE ALI	IS TY									33.50 59.80	FREE-JET SPEED 96 M/SEC (367,0 FPS)		
R BACKGROUND NOISE	O FT. ARC	X04020 X01400		150. 160.	É		.6 107	7.145	98.21	96.8	97.1	97.6	97.7 1	95.4	94	93.0 145	92.0 144	3 89.6 143	86.9 84.2 143.3 81.8 79.7 142.8	.8 73.4	70.1 .97.4 139.6 60.9 59.0 139.6	119.4 113.4 160.1	3859 TAMB 3: 29.2700 RELHUM 5	IN) - MODEL 117.		
YE!	STD. DAY, SB	FJ-400-FMGDL	FROM INLET, DEGREES	120. 130. 140.			6	100	111.9 114	.9 113.5 116 .7 113.8 114	6 113.4 116	5 113.9 113	===	7 111 1 100	5 109.5 107	107.4 104	5 103.4 1	3 96 3 93	93,9 94.4 91.2 88,9 88.8 86.2	.1 81.4 79	78.0 /4.0 /2.6 71.6 68.≅ 56.9	117.3 124.0 124.7	N301 IALPHA ADH166 PAMB	SIZE .7 SQ CM (27.55 SQ		
SCHOOL PRESSURE	, 70 PERCENT R.	TIFICATION - MODEL BACKGROUND	ANGLES MEASURED	90, 100, 110,	٠		67.6 69.8	90.00 80.00 90.00 90.00 1.00 90.00	92.6 94.	93.4 95.8 94.5 96.6	96.3 97.4	95.3 97.9 102	95.9 98.5	96.1 98.2 102	0.70	100.9 99.3 101.	99.7 99.5	95.8 93.8	89.08 88.03	80.2 79.9	65.9	109.8 110.5 113.6	TAPE NG. CH AERO. RDG.	RANGE 40.0 FT) ARC 177		
HINTEANSEGRAFF MANEL	59.0 DE0.	IDENTIFI		60. 70. 80.			84.3 65.7 66.	65.3 65.1 co.	88.8 89.1 95.	89.6 90.4 90. 91.7 91.8 92.	93.3 93.1 94.	92.0 91.6 93.	91.9 92.5 93.	93.9 93.1 93.	90.6 90.5 0	98.4 98.9 100.	94.9 95.6 98.5	68.7 89.4 94.	86.3 88.3 89. 80.6 82,7 87.	73.3 76.1 78.	67.3 69.5 70. 61.6 64.4 63.	107.2 107.2 108.6	TEST DATE 03-10-78 LOCATION C41 ANECH	ACCUSTIC		
•				40. 50.	60 00 00 00 00 00 00 00 00 00 00 00 00 0	125	81.5 83.	83.2 84.6 85.	85.2 85.	89.4 86.	88.8 91.	89.3 89.	89.4 90.	94.1 92.	97.2 97.	94.0 95.	16000 89.6 91.4	25000 83.5 85.	31500 81.7 81. 40000 76.8 75.	50000 69.9 71.	63000 63.9 65. 80000 57.9 56.	GASPL 105.0 105.3		MODEL TEST POINT 0400 0402	328	

						0	RIG F F	3 N	IAL OR (PAC	GE	3						Z - YES		-JET SPEED EC (367.0 FPS)
ARC	60,		9.	5,9 143.5 3.3 144.2	1.9 145.3 3.0 146.7	-	. 74	_	07.8 147.9 106.5 147.1		6.3 146.9 7 146.9 7 7 7 7 7			95.9 146.6 89.7 146.5	84.3 144.5 70 2 143 4	4	18.7 160.8	REFRACTION CORRECTION Turbulance correction	TAMB 33.50 RELHUM 59.80	FREE-JET MODEL 117.96 M/SEC (
Y, SB 40.0 FT. DL X04020	, DEGREES		.1 103.7 107.0 104	.6 109.6 1 .9 108.7 1	.0 111.7 108.6 1	.8 113.1 107.6	0.70	112.8 108.7	112.2 108.9	.1 108.3 104.4	.6 106.2 104.7 1	0 104.5 104.1	.8 96.4 97.0 l	.5 93.1 91.5 .4 86.9 85.6	6 80.4 80.5	0 64.2	123.5 119.8 1	367.00 48.00	IALPHA \$859 PAMB 29.2700	SIZE 27,55 SQ IN) -
ENT R.H. STD. DAY, SB	ASURED FROM INLET		87.5	90.0 91.5	92.4 99.7 1	96.3 103.1 111	98.8 105.1 112	100.5 106.0 113	101.0 107.6 112 102.1 106.8 111	103.2 106.5 1	102.0 105	101.8 104.3 1	96.9 99.3	93.0 95. 88.2 90.	81.4 86.0	68.3	113.2 117.5 123.1	VELOCITY (FT/SEC) : Jet Diameter (IN)	E NG. N301 RDG. ADH166	177.7 SG CH (
DEG. F., 70 PERCE IDENTIFICATI	ANGLES ME/ 80. 90. 1중한.		8 87.6 88.	6 69.5 69.0	.7 92.0 92.	7 93.8 94.	97.1 96.	7 96.5 97.	96.3 97.4 98.6 96.9 98.3 99.4	6 99.8 100.	.101.2 101.	0 102 7 100	2 101.2 98.	.8 92.5 93. 9 91.0 87.	5 83.2 82.	3 68.9 68.	112.3 112.2 111.5	OR FREE JET	CH CH AERO.	IC RANGE 40.0 FT) ARC
69.0 D	60. 70.		88.7	66.9 88.7 90.9 89.3	91.7 89.7	95.3 93.6	95.0 95.0 95.0 95.0	96.8 95.9	97.2 95.4	98.6 97.1	102.6 100.1 1	103.5 103.1 1	100.7 100.0 1	93.1 92.3 89.9 97.4	83.8 64.4	68.1 68.8	112.1 111.2 11	L SIZE SCALE FACTOR .000 CALC. 1.000	TEST DATE 03-10-78 LOCATION C41 ANECH	T ACGUSTIC
	40. 50.	60 63 60 100	9.7	90.2 90.	9.1.0	95.6 95.	96.0	96.2 97.		98.3 97.	101.6 101.	100.6 101.	8 8	90.5 91. 87.8 86.	82.5 80.	67.2 67.	GASPL 111.3 111.1	MODEL/FULL INPUT 1.0	TES	MGDEL TEST POINT 0400 0402

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

												OF OF	tiG	SIN PO	AL	. •	PA QU	GE Al	: I LIT	S											*	JET SPEED 3 (367.0 FPS)	
		160. PWL	75.4 161.2	9 163	. 1 164	4. 164	7.7	.0 165	77.0 165.0 7≥ 7 164.2	4.	6 163	.7 163	20.0	.6.165	6 165	. a.	.2 163	163.5	0 0 0								87.2 177.7 90.5	91.6			TAMB 33.50 0 RELHUM 59.60	FREE-JET FULL 117,96 M/SEC (
X04025	DEGRÉES	140. 150.	87.5 84.1	90.7 82.9	90.6 82.8	91.2 62.0	90.0	89.3 82.7	86.4 82.4 86.5 79.4	85.3 78.0	83.0 75.9	81.8 73.8	76.4	76.9 72.1	72.7 67.7	63.6	53.1 41.1										100.1 93.1	103.0 \$6.2	NCY SHIFT 9	1	IALPHA 5859 PAMB 29.2700	SIZE (1400.00 SQ IN) -	
FJ-400-FMGDL	URED FROM INLET,	120.	77.7 86.9	82.0	83.3	2 8 0 6 0 0	85.4 4.0	85.5	86.8 85.0	83.0	84.6	79.9	73.6	62.9	54.2	9 C	•		•	•				7 103 0 105 6	103.6	. 129 FREGUENCY		N301 ADH166	.2 SQ CM	
CATIO	ANGLES MEASURE	Ġ	2.4 71.9 72.4 3.E 73.9 73.9	74.7	2 76.0	76.9	78.5	3 76.4	-	70.0	5 80.3	79.6	2 c	80.8	5 79.	7.00	6 66.8	.3 56.	16.0								1.7 91.1 92.4 1.8 100.4 100.7	0 100 8	RATIG 7		TAPE NG. AERG, RDG.)E FT) SL 9032	
0		. 90	70.2 71.4 7	70.00	.4 74.0	.6 75. 27.4	2 76.8	.2 76.4	.4 76.8	9 92 9	.2 78.2	.4 78.7	2 C	82.6	.9 61.7	70.00	7 67.5	.3 60.									69.8 91.6 91 99.8 101.8 101	9 103.0	DIAMETER		03-10-78 C41 ANECH CH	ACCUSTIC RANGE	
		0. 50. 60.	.9 69.8 71.	1 71.2 73.	.1 74.5 75.	0 72.2 74.	1 75.9 78.	.3 73.8 76.	73.5	4 74.5 75.	.4 75.0 76.	.9 76.9 77.	70.0 80.	0 76.3 80.	.7 75.1 78.	0 66.3 71.	.5 57.9 63.	.0 45.4 53.	. 62 . 7 . 42	.						•	.8 87.5 89.9	4 95.9 99.			LGCATION	TEST POINT 731	
			50 67.		- 1	73	73	- 1		12	74			2 %	2000 71.	80		l	8300	10000	12500	20000	25000	31500	63000	80000	CASPL 85.	94				MODEL TE 0400	

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07/18/79 17:710										0	RIG F (21F PO			PA QU														.80	FREE-JET SPEED M/SEC (Q. FPS)		
	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-ZER-FMODL X04030 BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES	40, 50, 60, 70, 60, 90, 100, 110, 120, 130, 140, 150, 160,		6.3	00		85.0 86.8 89.1 89.1 89.7 92.1 85.0 96.1 96.3 105.6 109.6 112.7 112.9 1	86.4 86.2 89.7 90.0 91.6 93.7 94.6 97.0 101.2 107.7 111.4 114.3 113.2 147	67.9 69.4 90.5 90.0 91.3 93.7 96.1 97.2 1 88.2 90.0 92.3 92.1 92.7 95.3 96.7 96.1	89.6 91.4 92.6 92.9 94.5 96.6 96.0 100.4 105.1 112.7 115.6 116.3 114.9 1	92.6 91.7 93.9 95.0 95.1 97.7 99.3 101.7 106.9 113.2 115.6 116.8 115.2 1 95 5 95 3 97 3 96 1 96 1 98 3 99 9 103 3 108 3 113 1 115.0 116.6 115.1	\$3.6 96.1 97.6 97.2 98.3 99.9 101.3 103.9 108.1 113.0 115.8 118.0 115.7 151.	95.7 93.8 95.8 96.8 97.7 100.0 101.4 104.6 108.8 113.1 116.1 117.6 115.1 151.	96.1 97.1 97.7 97.4 97.0 99.1 101.6 104.9 109.2 113.3 116.5 115.8 112.4 151 95.3 95.8 97.1 97.4 98.2 99.6 102.5 105.4 106.9 113.7 115.2 113.6 110.3 150	96.1 97.0 97.2 98.0 98.3 100.4 102.8 106.0 109.5 112,9 114.5 113.2 108.7 1	95.5 96.1 97.1 97.4 97.4 100.3 102.2 105.6 108.9 112.6 113.2 110.8 107.3 1	92.6 95.5 97.6 97.0 98.5 101.1 102.8 105.7 107.6 111.7 110.4 108.2 105.9 148	91.8 95.0 97.1 97.2 98.7 100.6 101.9 104.6 107.1 109.5 109.4 106.6 104.6 1	89.8 93.0 96.4 96.9 98.6 101.2 101.1 103.9 100.7 109.1 107.7 106.2 1 As s on a as o as 6 97.6 99.5 99 9 101.8 103.2 106.1 104.7 103.5 1	84.2 38.3 92.9 94.4 96.8 99.1 98.0 100.4 101.2 104.2 102.2 101.9 99.4 14	76.7 86.1 89.7 91.8 95.7 97.3 95.7 97.1 99.1 100.1 99.7 99.1 96.3 144	75.6 76.9 63.5 66.6 67.4 86.6 86.6 89.9 93.1 94.2 92.2 90.1 86.4 142	71.1 73.6 78.5 81.2 85.6 86.3 83.2 84.7 87.5 89.0 87.9 84.1 85.1 1	58.4 62.5 64.8 67.7 69.5 70.9 72.7 71.6 78.0 75.8 74.6 73.2	52.9 54.8 59.8 62.7 65.1 64.8 65.9 72.8 70.2 72.0 66.6 66.0 140.	PL 105.8 106.9 108.5 108.8 109.9 112.0 113.5 116.3 119.7 124.5 126.3 127.1 124.9 162.6	TEST DATE 03-10-78 TAPE NO. N301 IALPHA 5859 TAMB 39.	MODEL TEST POINT ACQUSTIC RANGE 0400 0400 0403 12.2 M (40.0 FT) ARC 177.7 SQ CM (27.55 SQ IN) - MODEL 0.	331	
					ī.			180		· (v)	4 67				= 6	ă ă	j,c	4 5	6 6	ĕ	2 2	9	-		_			OASI	SNIINI		TEMAER	le br

							OR OF		IN.A	N. R	P/ QI	AG JA	E 1	S Y			•					× × × × × × × × × × × × × × × × × × ×		
		¥		2.87	147.6	150.4	150.7	201.2	121.0	101.0	150.0	- 100 - 1 - 100 - 1		47.4	145.5	145.2		142.6	140.3	140.6	162.6	TION CORRECTION	TAMB 39.50 RELHUM 29.40	- E06E - 15
		150. 160.		2.7 112.9	4.9 113.2			.a 115 .6 115	8.0 115.7	٥		13.2 108.7 10.8 107.3	10 0	06.6 104.6	- -	o -	· 6	00.1 000.4 1 1 25.4	0 0	9	127.1 124.9	REFRACTION TURBULANCE	SB59 29.4900 R	
L X04030	, DEGREES	. 140.		6 109.5 11	7 111.4 11	6 115.2 11	7 115.6 11	116.6 11	0 115.8 11	3 116.5	7 115.2 11		117.91	5 109.4	104.7	102.2 1	95.6		85.2		126.3) 0.) 46.00	IALPHA S	9175
FJ-ZER-FMGDL	FROM INLET	120. 130	·	6.00	101.2 107.	103.0 112.	105.1 112.	106.9 113.	133	2 -	-	2 2	112.	107.1 109.	- -		-	93.1 94.	4.0	72.6 70.	119.7 124.5	JCITY (FT/SEC) DIAMETER (IN)	N301 ADH159	
, Z	MEASURED	00. 110.			6	- ~	مام	0.00	0,			 	60 0	1.9 104.6		- -	92.	8 69 8 69	78.4 77.6	8 65.	3.5 116.3	JET VELOCI REE JET DI/	TAPE NG. AERO. RDG.	
	ANGLES	90. 1		92.1	83.	93.3	96.6) O	0.66	99.0	8	100.4	100.2	100.6	99.5	99.1	94.3	86.6	9.0	65.1	112.0 11	FREE	CH AEF	DANGE
		70. 80.		- 0	.16 0.	<u>-</u>	94.	. – . 96.	.2 98.	4 97.	.4 98.	. 4 . 98. . 4 . 97.	.6 98.	98.	.9 .6	4.96.	1 93.	9 67	74.8 77.7	. 8 62.	9.8 109.9	E FACTOR 1.000	03-10-78 C41. ANECH	ACCIISTIC RANG
		60.		8	2.68	92.3	92.6	9 CO	97.6	93.0	97.1	97.79	96.9	97.1	94.0	92.9	86.5	78.5	71.6	59.6	108.5 108	SIZE SCALE 000 CALC.	TEST DATE O	
		40. 50.		0.0 00.0	6.4 88.	8.2	9.6	5 . C. C. C. C. C. C. C. C. C. C. C. C. C	3.6 96.	6.1 97.	3.0 9.0 9.0	5. u . g . g . g . g . g . g . g . g . g	4.7 95.	9.00	6.6	4.2 86. 8.7 86.	7.5 83.	5.8 78.	64.0 68.5	2.9 54.	05.8 106.9	MODEL/FULL INPUT 1.0	TES	TEST BAINT

															OI OI	RIC	GII PC	AV IOC	F (PA QU	G A	E L17	is ry									SPEED 0. FPS)
																														39.50	76.10	FREE-JET (
			PWL	166.5	67.50 87.80	168.2	169.1	68.8	168.1	167.6	167.2	166.0	165.3	164.5	162.6	162.2	2.181	159.7	159.1	156.6	167.7		•			179.5				TAMB		
.			160.	6.03	-	97.0						0.77						30.4								4	98.0					- FULL
0.0 FT	10		160.		9 6	95.0	91.7	80.00 60.00	0.0	87.4	0.0	33.0	79.0	76.7	4.5	68.3	N (30.7	20.1							01.2	102.9	N	6	\$859 20 4000	4.4	ŝ
SB 2400.0 FT. SL	X04035	DEGREES	140.		. -		6	٠ د	90	6	oi 4	. 0	9	vi o	. –	9	ب د	25. C	- 1	7.7							106.6		Y SHIFT	ALPHA	ı	ZE). 00 SQ
DAY, S	. 1	_	130.	.7	•		0	<u>ب</u> ا	. 0	1	41	. ن	-	ه به	9 (7)	•	i i	66.6 60.4	9	N							106.7		FREQUENCY	5		\$12E
R.H. STD. DAY, 1				0	N C	, 0	6	0 1	. 0	0	ه ب	£ (5)	ю	<u>,</u> -		•	a (63.1	ი.	- 4							- 1		F	N301	20140	SOCM
NT R.H.	JA - ND	SURED FROM	10.	2.	د		4.1	4 F		4	φ (ب ا	IO.	Ņ.	, 0	0	ن د	0 0	۲.	88.00 00.00							05.0	מא.	7.129	9	.	9032.2
		Z Z	100.			80.6	91.1	82.3	82.c	85.9	85.8	82.0 82.0	82.1		79.7	76.6	73.6	68.8 62.3	51.9	37.0 13.2					٠		100.2	_	RATIO	TAPE	.	S.
0, ,	DENTIFICATI	ANGLES		o .	.		စ		- 0	4	۲.	, O	9	۰,	4 10	0	<u>ه</u> و	m •	9	38.3 12.5						-	- 0	5				NOE O FT)
.0 DEG. F., 70		\$	9					79.9										69.8 61.1		36.3 10.0	.					•	_	- - -	DIAMETER	10-78	ECH CH	TIC RANGE
28 .0			90.		_														1 .	31.0							95.2			03-10		ACGUST
60			<u>.</u>	~	D	0 0	6	10.1	n –	6	0	<u>ه</u> د	4	Φ.	D C	B	4.	50.4 53.5	6	e,						6.7	_			1 1		731
			20	6	N I	٥ ٢	0	.	, d	•	10	ن ا	a	- 0	0 -	6	ı,	40.4	a.	۰.		! !				10	6	9		TEST DATE	1007	POINT 1403
			9	p .	۰ و		6	~ (9 P	n)	6 0 !	~ 4	0	9	. c	0	e .	8.00 0.00 0.00	4		!						85.8	o.				TEST 04

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NO I SE				-			2.0	-1	. o.	8.0	1-1	450. V	• 1 •	 	C		45.0 0.0 0.0	9.0			3.8	0.0			, o	8.7	8	93	F 117.96		
ARC		160.					107.9 14	107.2 14	100.6 14	-	ai d	94.6 145		. 6	95.0 146	-	ი. ∢ 	9	92.8 145	· -	.3	89.2 143	. e.	2	58.8 139	113.0 158		TAMB 00 RELHUM	- MODEL	-	
	S	. 150.						2 :	0.01	108	90.		1	1 102.3		-			98		S	90.6	9 2	2	60.0 60.2	118.4		A S859 B 29.2700	S		
S CORRECTED 1. DAY, SB FJ-400-FMDDL FJB400-FMDDL	0	130. 140					6 105	.7 107	09.1 112.	9 112	.7 112	0.00	3 111	.4 111	1.6 110.	8 109	10.1 108.	90	.2 104	2 G	95 9	6 93 7	.6 85	97. 6	73.7 71.9 67.4 66.0	122.2 122.5		I ALPHA PAMB	SIZE (27.55		
STE	FROM INLET,	120, 1		,			-			4		- -	-	=	105.2 11	-	105.4 11		103.9 10		_			- 1	78.0 7	116.5 12		N301 ADH165	.7 SG CH	! !	
RESSURE CENT R. - MODEL BACKG	ũ	110.					6	~ !	- -			D 4	. 6	2	3 101	5 102		201	101	900	8 97	7 93	98	79	6 66.0	3 113.0		PE NG. RDG.	177		
SOUND F 70 PER ICATION	ANGLES M	90. 100					-	8 ·	- 10	6	6 t	-	- 0	.8	00 G	8	ن د ا	4	4 99	. 4	6 95	69 69	, 4	,	70.7 73. 65.4 65.	09.4 110.	i	TA AERO	RANGE 10.0 FT) ARC		
MODE EG. F		90.					_	4 (5 6	1	ui e	0 4	10	ø.	10 c	a	٥.	9 00	10 0	0 09	ю	0 -	. ~	8	63.3	107.9 10		10-78 ANECH CH			
UNTRANSFORMED 59.0 D		0. 70.			•		.0 84.	.0 85.	2 65.	.6 87.	98	3 6	7	.06 0.	200	7 92.	.7 94.		6 98.		. 1 93.	.3 89.	.26	.3 75.	. 69 69 3 . 9 64 2	.5 106.7		03- C41	8 8 8 8		
N5		50. 60					-	ю	. 0	6	@ !	. K	0	.8	۲. و و	4	9.0	1 98	10 (10	0	0,7	. s.	0	55.0 66 56.6 60	04.8 106		TEST DATE	N E		
		9					80.7	82.0	83.0 64.0	84.5	86.8	90. V	89.3	88.3	9 6	92.3		96.9	93.5	9 60	84.2	82.6	76.6	69.0	63.5 57.5	104.0 1		•	TEST 04	ŕ	
		202	F 0 0 0		125	160	250	35	500	630	000	000	1600	2000	2500	4000	2000	0008	10000	16000						CASPL			MODEL 0400		

					•)Ří	iGi P	O(AL OR	P/QI	AG	IE IE	is ry	1			•			X - YES N - YES					
200	GN - FJ-400-FMODL	ANGLES MEASURED FROM INLET, DEGREES	40. 60. 60. 70. 80. 80. 100. 110. 1.20. 130. 140. 150. 160.		200	9		86.3 66.3 66.6 66.0 67.3 67.1 67.7 67.0 42.0 48.0 102.4 88.3 48.3 48.5 105.2 107.8 8	89.6 89.6 89.8 88.7 89.3 89.9 90.7 96.1 106.2 109.2 109.0 103.0 143	90.3 90.6 90.4 69.0 90.4 90.8 91.0 91.5 98.1 107.2 109.9 107.9 101.8 143	94.6 93.7 94.1 92.1 92.2 92.8 93.5 95.6 102.5 109.0 110.1 105.5 104.4 144	94.2 92.0 93.7 92.3 92.9 94.3 94.7 96.4 102.7 109.1 110.4 104.5 103.5 1	96.1 92.9 95.1 93.8 94.6 95.8 95.7 97.8 104.5 109.7 110.5 103.8 103.4 1	96.7 94.5 95.6 94.7 94.4 96.0 96.9 99.3 104.7 110.9 109.6 105.4 104.8 1	95.6 95.1 96.2 94.4 95.3 97.2 98.4 100.5 106.3 110.1 109.8 106.0 105.2 1	96.5 96.1 96.4 96.2 96.5 98.4 99.6 102.0 106.3 110.2 109.8 105.8 1 96.8 96.4 96.6 96.7 96.7 98.3 99.8 102.2 106.3 110.5 108.8 105.0 1	99.5 97.8 98.1 96.6 97.4 99.3 100.7 102.8 106.3 110.0 108.0 104.4 106.3 1	100.5 99.2 99.5 98.3 98.4 100.7 100.7 102.3 106.1 108.7 106.9 104.3 105.6 1	102.3 103.2 103.6 102.7 103.6 103.4 101.6 102.2 104.2 107.2 104.6 103.3 104.8 147	100.1 101.4 103.7 103.1 103.3 102.7 101.5 101.1 104.3 107.2 103.7 103.6 106.0 147 99.5 100 2 101.7 101.7 102.5 102.4 100.5 100.7 103.1 105.0 101.5 101.3 104.7 147	97.5 98.7 100.4 100.1 101.0 100.6 98.2 99.0 99.4 96.4 96.5 96.4 101.6 1	89.6 91.8 92.7 92.4 92.6 92.3 92.2 92.8 95.2 95.3 92.4 90.8 95.5	67.4 86.6 89.2 90.0 91.2 90.4 87.4 87.7 90.9 87.8 86.0 85.2 89.5 1	82.3 80.8 84.4 84.4 83.3 82.7 82.1 81.1 86.3 81.7 80.0 80 73.7 74.6 75.6 76.6 74.6 73.7 76.3 74.2 80.7 76.9 76.1 73	64.1 64.9 65.9 67.5 67.8 68.4 87.9 67.8 70.9 67.1 66.2	110.5 110.7 111.6 110.8 111.6 111.8 111.3 112.7 116.9 121.5 121.4 118.6 117.7 159.	MODEL/FULL SIZE SCALE FACTOR FREE JET VELGCITY (FT/SEC) 307.00 REFRACTION CORRECTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE CORRECTION	TEST DATE 03-10-76 TAPE NG. NGO! IALPHA SB59 TAMB 33.50 LOCATION C41 ANECH CH AERO, RDG. ADH165 PAMB 29.2700 RELHUM 56.70	TEST BALLY ACALISTIC BALCE	L IEST FOINT ACOUSTIC KANGE. 00 0404 12.2 H (40.0 FT) ARC 177.7 SQ CH (27.55 SQ IN) - MODEL 117.96		
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r, DEGREES		96	9 3	97	67	9 6	98	99	9		10	8	77	72	99	63	52.		i					3 101.3	2	FREQUENCY SHI		I ALPHA PAMB	\$1 ZE 1400.00
FROM INLET,		76.4 85.4) G	G	,	.	• 0	98	187	96	0 85	1 84	9 12	707	72	17 8	2 61	7 46	9 -					95.6 99.2		FREGI		N301 ADH165	SQ CM (
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	20.	98	70	72.	71.		. 6	73	73		75.	77.	9 0	2	72	. 66.	58.	4 6						98.0	53			TEST	3T POINT 0404
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07/18/79 17.710				OI OI	RIGINA POOI	L PAG R QUA	E IS			3.00 3.90	FREE-JET SPEED M/SEC (0. FPS)		
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 35 40.0 FT. ARC	ICATION - MODEL F. BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES	FREG 63	84.0 88.6 88.3 89.1 89.7 91.6 94.6 95.9 96.6 105.4 109.5 112.2 1 85.9 87.9 89.4 109.5 112.2 1 85.9 87.9 89.4 90.0 91.6 93.2 94.3 96.0 89.9 107.0 110.6 113.6 1 87.2 88.9 90.2 90.2 91.3 93.7 95.1 96.7 100.7 110.0 112.4 114.3 1 88.5 89.5 91.5 91.3 91.9 94.5 96.2 97.6 102.0 111.1 113.2 114.2 1	86.3 90.9 92.4 92.7 95.0 95.9 97.0 99.9 103.9 111.4 113.1 1/13.6 112.4 1 91.6 91.1 93.9 94.2 94.6 96.6 99.0 101.4 105.7 112.5 112.6 113.6 112.7 1 94.7 94.2 96.2 95.5 95.6 97.7 99.9 102.3 107.2 112.1 111.7 113.1 112.3 1 92.3 94.3 96.6 96.1 97.2 99.6 100.2 103.6 107.6 111.9 113.3 114.7 113.1 1	94.6 93.7 95.5 96.0 97.1 99.7 100.8 104.0 108.2 111.8 114.0 116.2 113 95.8 96.8 98.5 96.8 96.9 95.3 101.1 103.8 108.5 112.6 114.1 115.3 112 95.2 95.4 96.9 97.7 97.5 99.9 102.5 105.0 107.9 112.5 114.2 114.4 110 96.7 97.2 97.7 97.8 98.1 100.7 102.3 105.5 108.7 112.4 114.0 113.0 108	96.3 95.9 97.4 96.6 98.0 100.1 102.2 105.6 106.4 111.5 113.4 110.6 106.6 148 95.8 96.4 97.8 97.6 98.4 100.3 102.7 105.9 107.9 111.3 111.9 109.6 105.3 148 94.7 96.6 98.6 97.6 99.1 101.2 102.1 105.3 107.5 111.3 110.8 108.5 105.0 148 93.8 96.5 98.7 98.2 99.3 100.9 102.2 104.6 107.6 110.3 109.7 106.8 103.8 147	91.2 94.6 97.6 98.4 100.0 101.6 101.18 104.4 105.9 108.9 108.2 106.2 102.5 147 88.8 92.7 95.1 96.6 98.6 100.5 100.7 103.1 104.2 106.3 106.0 103.9 101.1 146 87.2 91.4 94.7 95.7 98.3 100.0 99.3 101.4 102.3 105.2 103.8 102.7 99.1 146 81.6 89.2 91.3 93.5 97.5 98.0 96.7 98.6 100.0 101.9 100.2 99.0 96.5 145	.1 90.3 94.8 95.1 93.7 93.3 97.2 97.7 96.6 95.1 .2 88.4 89.1 90.1 90.1 91.2 94.5 96.1 94.1 90.1 .6 83.1 87.0 87.9 84.5 86.1 88.8 90.8 86.9 86.0 .0 76.8 79.1 80.6 79.8 79.1 84.0 84.8 83.2 80.7 .8 70.2 70.9 72.1 73.9 72.8 79.7 79.0 77.8 75.8 .3 64.8 63.9 66.3 65.8 67.4 74.0 72.3 73.1 68.3	TEST DATE 03-10-78 TAPE NO. N301 IALPHA SB59 TAM LOCATION C41 ANECH CH AERO. RDG. ADH168 PAMB 29.2550 RELHU	ACGUSTIC RANGE	337	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70. PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

				ORIGINAI OF POOF			Ć.				IT SPEED (0, FPS)
	ž	J		20022	162 162 161	158			178.6	TAMB 33.00 RELHUM 63.80	FREE-JET L 0, M/SEC (
DEGREES	10. 150. 160.	60 00 00 00 00 00 00 00 00 00 00 00 00 0	89.0 69.2 63.6 89.0 69.2 63.6 64.3 69.5 64.3 64.3 69.7 64.3 69.7 64.4 69.0 79.9 69.7 69.5 69.5 69.5 69.5 69.5 69.5 69.5 69.5	79.4 70 77.0 67 75.5 65	69.0 56 62.6 48 53.7 38	21.9			.0 95.2 53.6 .9 101.6 94.5 .9 101,6 95.7 SHIFT -9	SB59 29.2550	00 SQ IN) - FULL
FROM INLET, DEG	120. 130. 140	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	i i	3 86.3 84.7	7 75.2	6 29 4 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			96.1 101.5 101.0 103.6 106.1 104.9 103.6 106.1 104.9 FREQUENCY SHI	N301 IALPHA ADH168 PAMB	S12E 2 SQ CM (1460,00
ANGLES MEASURED F	100.	76.4 77.6 76.3	82.0 84.0 83.0 83.0 84.0 84.0 84.0 84.0 84.0 84.0 84.0 84	- 6. 1. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	74.8 7	38.4 14.4			93.3 95.6 100.7 102.4 101.2 102.4 ATIO 7.129	TAPE NG. N AERG. RDG. A	.) SL 9032.2
ANG	70. 80. 90.	2 72.7 76. 2 73.2 76. 6 76.3 77. 0 76.0 78.	76.8 79. 7 76.3 80. 5 78.0 80. 1 77.6 80. 7 78.0 80.	7 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 76 9 78. 7 75.5 76. 9 71.5 72.	.1 55.7 57. .9 37.7 40. .1 11.4 13.			.3 89.9 92.1 .0 96.8 100.6 .0 100.0 101.7 DIAMETER	3-10-78 11 ANECH CH	ACGUSTIC RANGE
	50. 60. 7	2 72.5 74.0 74.0	73.1 76.3 76 73.1 76.5 76 72.3 75.2 76 75.1 78.0 77 73.4 76.1 77	2	6 67.0	2 25.7			94.4 97.6 68 90.2 94.3 96 90.2 94.3 96	TEST DATE 03 LGCATION C4	POINT 731.5
	FREG	6.66.0 6.00 6.00 6.00	125 72.0 160 69.4 200 71.5 256 72.3 315 71.3	68.9 67.6 64.5	0.00 4 6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	7	12500 16000 20000 25000	31500 40000 50000 63000	91.7 96.4 86.4		MODEL TEST P 0400 046

												90	OF		SHI PC	AP OC	L R	PQ	A G	YL.	15									•).	SPEED		· ·	
SOUND PRESSURE LEVELS CORRECTED F	EG. F., 70, PERCENT R.H. STD. DAY, SB 40	IDENTIFICATION - MODEL FJ-400-FMODL X04060 BACKGROUND FJB400-FMODL X01400	ANGLES MEASURED FROM INLET, DEGREES	40. 50, 60, 70, 50, 90, 100, 110, 120, 130, 140, 150, 160,					1 82.4 63,2 84.9 65.2 86.6 88.5 90.0 93.2 100.5 105.0 108.2 107.4 141.	7 62.9 64.2 64.6 65.9 86.0 66.9 90.6 94.8 102.6 106.1 109.1 106.5 14	.O 83.8 84.8 84.5 85.4 88.3 69 6 83.0 85.7 86.0 87.6 88.0 90	0 AR R A7 3 A7 1 93 7 90 6 92 B 95 1 100 1 108 7 109 3 106 0 96 7 143	5 85,6 87,8 89,1 89,5 92,1 93,7 96,9 101,6 109,2 109,1 103,3 94,2 143	6 86.2 89.5 89.2 90.1 93.2 94.6 97.8 103.5 110.1 108.2 100.6 92.8 144	0 86.8 90.8 90.6 91.7 94.3 95.7 99.4 104.1 109.4 109.3 99.7 92.1 144	.1 87.9 90.2 91.0 92.3 95.2 96.8 100.2 104.2 109.8 108.3 99.0 92.0 144	0 00.5 20.0 30.0 0 1.8 30.0 0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	. 8 89.7 91.2 92.0 93.3 96.2 98.3 102.5 106.0 109.1 106.5 100.0 92.5 1	.8 90.4 91.9 92.1 93.2 36.1 98.5 102.4 105.4 108.8 106.9 98.9 93.1 144	.0 93.9 94.9 93.1 93.9 96.8 59.2 102.9 105.1 109.1 107.2 100.3 93.8 144	2 96.3 97.1 93.1 93.6 97.7 98.1 102.6 103.2 108.0 106.5 100.3 94.0 143.1 07.5 98.1 93.3 145.	2 94.8 98.4 98.4 99.0 99.9 99.0 102.4 104.2 107.4 104.2 98.9 92.5 145	6 92.4 94.8 96.3 97.8 99.2 98.9 100.6 102.6 105.2 101.7 96.9 91.3 144	.6 91.9 94.2 94.9 96.3 99.3 97.7 99.7 100.8 103.9 100.0 95.6 91.8 1	0 68.7 81.0 82.7 80.E 87.8 80.4 87.0 80.7 100.1 80.8 80.8 140.	5 82,2 85,9 87,9 88,3 89,3 89,3 90,6 93,5 94,5 91,0 86,0 83.5 142	.3 76.8 81.2 82.8 86.7 88.1 84.2 86.1 88.7 88.4 85.5 81.1 79.3 142	7 71 8 73 2 76 4 79 0 60 5 78 0 63 7 61 2 78 4 70 7 70 139 66 9 139	8 56.7 61.2 64.5 63.8 65.2 65.5 66.1 70.9 68.0 66.0 60.5 58.8 1	.5 104.4 106.1 106.1 107.4 109.2 109.9 113.1 116.2 121.0 120.0 116.7 112.2 157.7	1EST DATE 03-10-78 TAPE NG. N301 IALPHA SB59 TAMB 33.00 LGCATION C41 ANECH CH AERG, RDG. ADH167 PAMB 29.2650 RELHUM 62.70	POINT ACGUSTIC RANGE	40.0 FT) ARC 177.7 SG CR (Z7.05 SG IN) - MOJEL 117.90 M/SEC (
10			•		0 0	200	100	125				1							1			1		88		000	00	000	80000 67	GASPL 103		1	0400		

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB IDENTIFICATION - FJ-400-FMODL X04	ANOLES MEASURED FROM INLET, DEGRÉES	. 80. 80. 10¢. 110. 120. 130. 140. 160. PUL		96.7 96.6 98.7 96.5 91.5 99.2 1	0 87.6 88.2 87.6 87.9 94.3 103.7 105.6 107.6 104.7 1 88.2 86.6 89.0 89.7 95.0 105 3 106.9 106.9 102.7 1 89.4 89.2 89.8 91.1 97.6 105.9 106.7 105.4 100.9 1 8 89.4 89.2 89.8 91.1 97.6 105.9 106.7 105.4 100.9 1 8 89.4 89.5 8 106.7 105.4 100.9 108.7 105.4 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8 100.8	6 91.4 92.6 92.9 94.6 101.0 103.5 101.9 100.0 142.6 92.1 93.0 93.7 95.5 102.6 107.5 107.7 101.1 100.3 142.9 95.1 95.0 97.3 103.0 108.1 107.0 100.7 100.4 143.1 96.3 98.4 104.4 108.3 105.9 100.1 100.8 143.4	5 96.7 98.5 99.5 104.4 108.8 106.4 101.1 101.7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 97.8 99.6 100.7 103.0 106.2 109.6 107.6 104.5 105.3 146.0 6 99.2 100.7 100.6 103.0 106.2 109.0 106.8 103.3 104.7 146.2 0 100.8 \01.2 100.7 102.5 105.6 108.5 105.7 103.6 104.4 146.5 5 103.0 142.9 100.8 102.7 104.2 107.1 104.2 102.7 104.5 147.0	102.3 102.2 101.0 101.3 104.3 107.2 103.9 102.6 106.1 147.7 101.1 102.3 100.1 101.0 103.3 104.4 101.8 101.8 104.5 147.6 100.7 100.2 97.9 99.1 99.4 98.9 96.2 96.6 101.3 146.8 98.5 98.6 24.1 93.6 98.9 98.8 96.9 95.2 99.7 147.2	92.3 92.3 91.6 92.1 95.8 95.2 92.6 90.9 95.6 146 91.2 91.1 86.7 88.0 91.1 88.4 86.9 85.9 89.9 145 83.6 83.5 82.0 81.0 86.4 82.1 80.4 79.9 84.5 144 75.4 74.8 76.0 74.2 80.4 77.4 76.1 73.7 79.1 143	68.4 68.2 67.9 67.8 70.6 67.6 68.3	FREE JET VELGCITY (FT/SEC) 387.00 FREE JET DIAMETER (IN) 48.00	
THO!	. F .,	ANGLES MEA			7 86.6 86.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 92.6 92. 1 93.6 92. 7 95.1 95.	4 95.7 97. 4 98.1 96.7 96.7 96.7 98.1 98.1 98.	8 99.6 100.2 100.7 100.0 11.2 100.	3 102.2 101. 7 100.2 97. 5 98.6 94.	3 92.3 91. 2 91.1 86. 6 83.5 82. 4 74.6 78.	.4 68.2 67.9	FREE JET FREE	1-7e TABE
	0.00 0.00		50. 60. 70.		99.0	.6 89.0 87.	93.9 93.6 91.6 91.5 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.8 100.2 97.4 96. .8 100.2 97. .3 101.6 99.	7 103.5 102. 0 101.0 101. 0 106.0 99.	0 93.2 92. 0 \$7.8 88. 4 84.4 84.	67.4 68.	SIZE SCALIOO CALI	TEST DATE 03-10-78
			40.	0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87.7	87.7 89.9	9 9 9 9 9 4 5 5 2 9 - 0 0 4	8 8 8 8 8 8 8 6 8 8	100.3	0 0 0 0 0 0 0 0 0 0 0 0	1 1	80000 67.0 67.0 67.0 67.0	MODEL/FULL INPUT 1.0	

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		PVL	156.7	159.2	159.7	9.00	160.4	160.9	162.1	162.6 163.1	163.3	164.0	164.7	163.9	163.2 163.2	163.0	160.3 156.7				176.0			TAMB 33.00 RELHUM 62.70	FREE-JET 117.96 M/SEC (
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		¥	162.0	162.3	161.9	161.4	161.6	162.4	163.5	164.2	164.1	164.0	164.7	164.9	165.0	200	163.0	162.9	161.6	160.2	200								177.0				TAMB	11	-
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-FMODL	INLET,	130.	86.6	87.6	97.6	87.3	87.4	88.0	88.1	88.55	87.2	96.1	9 6	82.0	79.4	4.5	60.0	47.1	26.2										28.1	104.5	FREQUENCY			CM C146	
FJ-400-FMGDL	FROM	120.	77.7	81.5	85.9	83.2	84.9	85.2	86.0	85.6	85.7	83.	200	91.0	80.0	20.00	/ K. 7	54.1	37.8	9.0									103 -		-		N301 ADH16	.2 80 (
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70. PERCENT R.H. STD. DAY, SB 2400.0 FT. SL ()

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J-ZER-FMODL X04090	, DEGREES	. 140, 150.				6 111.6 114.7	113.1	9 117.7 118.4	118.6 119.	116.7 119.	119.3 120.	119.6 118.	4 116.4 116.1	115.6 111.	114.9 110.	111.7 107.			98.3 94.	8 c	£4.6 79.	73.6 67.	.9 129.4 129.0	IALPHA SB59		(NI DS 90 ./Z	
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	X04090	DEGREES	140.		11.6	113.1	117.71	118.6 1	118.9 1	.00	119.6 1	118.7	1.0.4	115.6	114.9	113.2	110.7	108.1	105.6	98.3	9 9 6 6 6	84.6	78.3	73.6	129.4	0. 48 .00	ALPHA PAMB	312E 27.55 30
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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											OR OF	rig P	iN 'O'	AI	L	P#QU	IG JA	E	is ry											SPEED 0. FP3)	
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RED FROM INLET,	120.	83.7	96.6	88.0	88.8	1 0	900	88.5	89.2	87.6	86.5	85.7	83.8	81.2	0 K	70.1	62.5	50.7		.						105.0		-	N301 ADH162	SG	
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NO NOISE				Ī						144.8	145.4	147.2	147.0	147.7		•		•	146.2	140.0	. 0 . 0	146.3	145.9	145.6	. 44. 64.00	43.0		142.8	4. 6. 6. 6. 6.	138.7	138.8	159.7	TAMB 3	ſ	117.		
FOR BACKGROUND NOISE 40.0 FT. ARC	X04100 X01400		150. 160.							1.5 110.9	2.6 110.0	3.6 108.5	3 101 2	28	.6	0.95	9.	92	oi a		2.0	4 95	.1	.6 93.		9.	.2 88.	.5 83.	œ «	6 66.	.1 67.	0.8 115.9	C M	000	IN) - MODEL		
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LEVELS CORREH. STD. DAY,	FJ-400-FMGDL D FJB400-FMGDL	M INLET,	130.							0	9 106	.7 .09.		=======================================	2 111.	3 110.	2 110.	3 111.	=======================================		. 5 110.7	3 110.	109.	2 108.	105.		96	4 93.	3 87.	730	7 67.	.5 122.7	_ 5	3	S CM		
PESSURE LEV	MODEL BACKGROUND	EASURED FROM	110. 120							ł		4.40	-1-		_	_	1	_		-}-	104.0 106.	_	-	٠.	- •	_	Î			1		114.3 117	Ż		.7.7		
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			-	FREG	9 6	8	100	125	500	250	3.5	400	2000			1250	1600	2000	5200	3130	4 K	6300	8000	10000	12500	0000				1		DASPL	SHITH		MODEL 0400		NAC.

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• • •																			CORRECTION CORRECTION	34.00 50.40	FREE-JET 17.96 M/SEC (
	. ARC			160. PWL		07.4 141.6	09.0 145.2 07.8 146.0 05.7 146.2	07.2 146.5	4.4. 0.4.1	200	05.8 147.1 07.0 147.7 07.0 147.5	.2 147	04.3 147.2	6 147	3 146	6.		56.2 140.9 119.2 150.4	REFRACTION C Turbulance C	TAMB 10 RELHUM	MODEL 1	
ME LEVELS	40.0 FT	X04100	DEGREES	1∛0, 150,		.6 108.2 1	. 7 111.6 . 7 111.9 . 3 111.0	3 109.3	.4 106.1	3 105.1	. 50 . 50 . 50 . 50 . 50 . 50 . 50 . 50	3 105.4	102.9	0 101.7	2 95.9	90.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	120.6	387.00 R 48.00 T	HA SB59 WB 25.2550	56 SQ IN) -	
UNING PRESSU	STD. DAY, SB	FJ-400-FMGDL X	{	130. 13		101.7 104	106.7 10 107.9 11 108.9 11	109.8	200	900		110.91	, ,	106.8 1	9.0	3 94.5 93 1 87.9 86	76.3	•	TY (FT/SEC) 38 Ameter (IN) 4	I ALPHA 33 PAMB	SI ZE CM (27.55	
MODE	R.H.	ON - FJ-400	SURED FROM INLET,	110. 120.		_	90.2 96.7 92.7 99.5 93.8 100.5		40.0	V (9	103.1 107.2 103.1 107.2	-	000	1 '	N 0	91.8 95.3 87.6 90.4	က ဆ	67.0 70.2 113.8 117.#	VELGGITY (F Jet Diamete	: NO. N301 RDG. ADH163	177.7 SQ	
	, 70 PERCENT	DENTIFICATION	ANGLES MEAS	90. 100.		2 69.	6. – 0.	9 6	98.8	20 CO CO CO CO CO CO CO CO CO CO CO CO CO	. 2 100. 4 20. 7	9 101.8	200	1 100.5	41	.3 91.		.4 67.3	FREE JET V	TAPE AERO. F	FT) (FC	j
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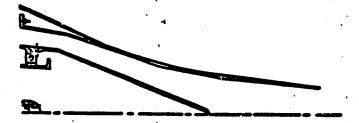
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 58.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

ORIGINAL PAGE IS OF POOR QUALITY

6.1.6 Measured Acoustic Data for Model 5

without struts conic nozzle



ANGLES HEASURED FROM INIET, DEGREES D. 80. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 160. 160. 160. 160. 160. 160. 16		ORIGINAL POPE CO	AGE 18	₹ :	SPEED .
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR C CKOROUND NOISE 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS
59.0 DEG. F., 70 PERCENT R.H. SID. DAY, SR. 2400.0 FT, SL

X05015

INENTIFICATION - FJ-ZER-FMODL

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						OI OF	RIGINA POOF	L PAG	E IS LITY				-JET SPEED EC (278.0 FPS)		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS EG. F., 70 PERCENI R.H. SID, DAY, SB. 40.0 F (}

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS
59.0 DEG. F. 70 PERCENT R.H. STD. DAY. SB. 2400.0 FT. SL

X05035

IDENTIFICATION - FJ-400-FMODL

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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND MOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY. SB. 40.0 FT. ARC

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		Pul		97.	148.3	150.3	153.3	155.0	185. 185. 185.	155.1	154.4	152.6	152.6	151.2	150.6	148.4	146.7	147.2	147.1	145.1	147.1	165.9	TAMB	•		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. SID. DAY, SB. 40.0 FI. (L

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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE

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STD. DAY, SB. 4	10DL X05050	ET, DEGREES	130. 140.		01.0 105.3 1	2 13	14.0 116.4 1	6 119.1	901	5 116.3 1	87	7 112.6.1	2.00.2	.6 108.7 1 2 107.2 1	.2 103.1 .1 99.6	02.2 98.4 98.4 95.3	.1 88.3	တ ရ	26.6 128.1 1	8	(IN) 48.00	IALPHA	PAMB	_		
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TRANSFORMED 70 PERCENT	DENTIFICATION	ANGLES MEASU	90. 100. 1		88.3 89.6 8 89.5 90.3 9	6 91.4	93.3 94.9 5	0.57.6 1	99.6 100.3	2 102.0	7 102.5 1	3 106.3	8 105.3 1	3 105.3 1 5 102.5 1	5 100.7 1	7 89 2	2 84.2		4.7 114.8		FREE JE	쒸	AERO.	FT) ARC		
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U L	150.	9	- 00	88.9	88 80 80 80	89.0		86.9	0.00	. F. G.	79.	77.3	72.4	70.2	20 8	9 (2		16.4										96.3 96		FT -9		SB59 29.4562		SQ [N] - F	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS
58.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

X05055

IDENTIFICATION - FJ-300-FMODL

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### ST CATION - MODEL ### PJ-400-FMODL ### BACKGRCUND FJB400-FMODL ###), 160, P.T.		100.5 100.5 100.5 100.5 103.6 100.9 100.9 100.8	98,3 148.8 96,4 148.7 96,4 148.7 92,1 145.6 92,1 145.6 85,5 143.6 81,1 142.4 74,5 141.2 68,5 138.5	523 RE
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MODI	INLET	130.	88.6	٠.	93.4	94.6		93.9	•	4 ^	1.00			84.3	80.7	76.7	72.4			9 .0					٠		105.1	9 (FREQUENCY			1
FJ-400-FMGDL	ROM IN	120	80.6	83.2	85.6	87:7	89.7	90.4	89.00 0.00	90.0	89.6	88.9	87.8	84.2	81.0	77.9	•	52.6		•							100.8		1	N281	(DHO19	
ı	EASURED EROM	110.	75.3	75.9	77.6	80.0 7	83.6	84.3	85. 	86.9	86.3	87.5	87.3	85.0 84.6	82.0	76.8	70.00 10.00	53.0	34.6	•							-	• 4	8.268	١.	RDG.	
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_		80.	73.6			7.0.4	-	81.7		9	٠ د		9.	80.c	1	10	١.	50.3	Ci.								0.0	o rd	D! AMETER	-77	ANECH CH	ACOUSTIC RANGE
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	.	.09	6 69	7	ا و	- 0	9	81.1	<u>ب</u>	4	٠ ر		.7	, 10	q	9	ص (-].			• •	- N		1		
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- GE	:					, O 0	60 15) O 4	9	თ – к	4-0	0 K	ာ်ထံတာ်င	900	- 0	8	8.	MB 41.36 UM 68.20	FREE-JET 0, M/SEC (
OR BACKGROUND NOISE	. 020		160. PW			113.0 145. 113.6 145.	4	i 0 4	125.3	120	0 2 3 6	106.9 143	103.8 140 97.3 137	89.4	94.2 78.4	64.8	129.4 160	TAMB	- MODEL	n
"	10DL X05070	DEGREES	140. 150.		03.0 106.2	.9 108. .7 110. .5 1110.	113	13.7 113.1 14.0 112.7	N O	9 01	C6.2 110.2 04.8 108.1	6	95.8 100.6 91.9 94.9	a 6	- «	7-	122.8 125.1	ALPHA SB59 PAMB 29.4720	SIZE. 20.38 SQ IN)	
ELS CORRECTED TD. DAY, SB	FJ-ZER-	INLET,	. 130.		. 3 98.4 1	.2 99.7 1 .7 104.3 1 .8 106.1 1	4 107 9 1		8 102 6 108	.5 107.5 1 .8 105.7 1	. 1 104.3 1 . 8 102.8 1	7 100.6	5 95.8	9 86.2	1 80.6 8 72.2	3 59.1	4.3 118.4 1	N281 1/ ADH004	SQ CM (20	
ESSURE LEVELS ENT R. H. STD.	MODEL BACKGROUND	MEASURED FROM	110. 120			9 9 9	95.7	98.00	101.2	0.0	100.7	9.66	95.	83.2	78.5	58	7 112.0 114	RDG.	131.6	
SOUND PRESSURE	- ICATION -	ANGLES ME	90. 100.	•	06	200	8	- 0 a	4 97	7 2 2	99.8 99.8 99.2 98.8	2 60	o 4 e e e e	9 8	900	40	109.0 109.7	TAI	RANGE 40.0 FT) ARC	
RMED MODEL	IDENTIFICAT		. 80.			0 87.8 7 88.6	7 92.5	2 94.0 5 96.1	2 96 1	4 102.0 7 98.5	0 101 6 2 99 9	4 94.7	0 92.1 7 89.2 85.8	6 83.3	73.00	5 66.5	.8 110.8	15-77 1 ANECH CH	ACGUSTIC RA	
UNTRANSFORMED M	-		60. 70		93	. 2 86.	9 89	-04	92.9 94	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95.5 99. 95.5 97. 94.4 95.	- 8 - 8 - 8	98 86 86	828	96.4	0 2	9.	TEST DATE 12 LOCATION C4	51	
			0. 50.		4 4 1	9 83.	6 85. 6 87.	8 87. 7 94.	4 91.2	98.6 99.9	. 8 95.2 . 7 94.1	0 92. 0 90	4 86	200	2 4 0 2 8 0 2 8 0	0 0 10 40 10	.9 107.	TEST	TEST POINT 0507	
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· 9400 ...

									OF		iN.					ין : רדו									١	TON - YES			T SPEED	M/SEC (0. FPS)		
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59 0 DEG. F. 70 PERCENT R.H. SID. DAY, SB. 40.0 FT. ARC	1 DENTIFICATIO	ANGLES MEASURED FROM INLET, DEGREES	40, 50, 60, 70, 60, 90, 100, 110, 120, 130, 140, 150, 160, PWL	20	63	78.5 65.6 63.3 63	80.4 83.7 84.2 87.7 86.7 88.6 89.2 91.8 94.0 96.7 104.3 108.7 110.3 113.0 1	.0 86.0 86.0 87.6 90.2 91.0 91.9 94.1 97.8 106.1 110.5 111.7 113.6 146	87.6 87.4 87.9 89.7 92.5 91.6 93.6 90.7 99.4 107.9 112.1 113.5 115.4 1 88 8 87 4 89 1 91.2 94.0 93.1 94.8 98.4 101.4 109.0 113.6 112.8 115.4 1	92.7 94.7 94.0 94.5 96.1 95.0 96.4 99.3 102.5 109.0 113.7 113.1 117.3 149	5 94.1 93.6 95.1 98.4 97.6 98.7 100.6 103.0 106.4 114.0 112.7 116.7 149	100 9 102 2 104 0 103 0 105 6 99 8 99 6 101 5 104 6 108 3 114 0 119 8 125 3 1	99.1 98.6 100.4 99.4 102.0 98.2 09.2 101.2 103.5 107.5 110.9 15.1 120.9 151	6 99.9 99.7 99.7 98.5 96.7 98.5 101.4 103.6 103.7 105.2 107.0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95,8 95,2 95,5 97,2 99,9 99,2 98,8 100,7 103,1 104,3 106,2 110,2 113,9 1	93.7 94.1 94.4 95.9 97.5 97.9 98.2 100.4 101.8 102.8 104.8 108.1 112.3 145	0 92.9 83.7 83.4 84.7 95.8 96.7 99.6 89.7 100.6 100.9 104.8 108.9 143	85.7 88.1 89.0 91.0 92.1 94.0 95.1 97.5 97.5 97.7 98.6 102.3 106.	83.4 86.7 87.5 89.7 89.2 92.4 93.0 95.7 95.5 95.8 95.6 100.6 103.6 140	8 82.6 83.3 85.3 86.2 86.4 89.5 88.1 87.8 91.1 94.4 136	72 0 73 6 76 9 80.2 80 9 81,1 82,0 83.2 84 8 60.6 83.8 88.4 88.2 1	60.9 61.8 66.5 68.8 69.2 69.2 71.3 70.9 74.8 72.2 74.2 75.4 78.4 133.	64.2 56.3 62.4 66.3 64.6 70.1 64.5 68.7 72.1 71.5 1 c1.5 1	106.9 107.7 108.6 108.8 110.8 109.0 109.7 112.0 114.3 118.4 122.8 1	٩	UT 1.000 CALC. 1.000 TURBULANCE	TAMB 41	C41 ANECH CH AERG. RDG. ADHOO4 PAMB 29.4720 RE	SIZE	507 12.2 H (40.0 FT) ARC 131.5 SQ CH (20.36 SQ IN) - MODEL. 0.	33	75
			· .							1									-		1			- KS	181	S SNI	INI				ALLA	NOH-

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					-)Ri)F	IGI P	NA OC	IL)R	P/ QI	AG JA	E	K T	¥														SPEED 0. FPS)		
																														41.36		FREE-JET S O, M/SEC (
		7	163.3		166.9	7	167.0	173.4	169.7	165.0	164.8	163.4	161.5	159.3	156.3	155.2	154.6	•	101	153.1							179.1			TAMB				
		160.	.98	90 8	88.5	9	8 6	98	a i	4 4	2	2 1	2 %		20	30	80										00	- 1	O P	SB59 29.4720) - FULL		
X05075	ES	150.			89.3				ì		8	1		3 71.6	1	100	37	6 18.4	0						•		6	3 104.2 5 105.1	SHIFT			SOLN		
	DEGREES	140			•	8	N C	9.18	ı		4 82.2	ı			1		7 47.	5 32	 60 60								100	1 03	FREQUENCY S	I ALPHA PAMB	•	SIZE (1400.00		
FJ-ZER-FMØDL	URED FROM INLET). 130	-		89.00	- 1	0 6	97	ı		6 82.4		- 4	20 4	1 66	- 69		40	.8 17.	ø.								99.7 101.3 99.7 102.4	FREGI	N281 ADH004		SO CM		
- FJ-ZE	ED FROM	o. 120	2 78		.6 82.8	- 1			- 1				. 9 7 8 . 9	9		. 4	(1)	đ	.4 27	- -								96.7 99 98.7 99	. 288			9032.2 \$		
ATION	MEASUR	11 .00	5 76	ю.	8 60	ط.	- 0	0	þ	a c		۹.		- (9	- 0	10	4	1.2 28							•	- -	od	•	TAPE NG AERG. RDG				
IDENTIFICATI	ANGL ES	90. 10	2.0 74	6 .	5.6 77	g	- a		4	() -	80.3 79	4	0.4	74.3 75	4 ×		56.6 57	٩	6 6 6								IO.	96.5 97 96.5 92	ER RATIÖ	AE		IOE O FT) SL		
<u> </u>		.00	1.2 72	6.	75.1 /4 76.8 75	9	. .	, œ	7	o , a		4	o -		90	i o		a	28.2	•							ю	98.2	DIAMETER	5-77 ANECH CH		ACCUSTIC RANGE 5 M (2400.0 F		
		70.	69.0	8	73.00	g	0 0		7	٠ ٢ ٧		d	0 -	70.4	مام) (C	9 09	7	26.3								•	95.7 96.8		12-15-77 C41 ANEC		1 •		
	-	.09	67.2	ن	66.4 70.6	e	6 0 (G	a 0		4	, K		4	ه م	48.2	7	19.5							-		94.4		TEST DATE		731		
		20.	4.5	10	67.8 67.7	ø	- (9.5	۹	•	6.67 4.6.						41.7		7.5									91.6 93.0		TEST		17 POINT 0507		
		.	60		66.4 67.6			78.6		•	73.4		_	59.4		•	9 4 7 6 7 4										. 84	88				TES		
		0		63	08 C	125	160	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	315	400	200	800	1000	1600	2000	2500	4000	2000	6300	8000	12500	16000	25000	40000				PNL				MODEL 0500		

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

												GII PC			P/ Ql	A GI JAI	E LIT	S Y			•					T SPEED (278.0 FPS)		
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SOUND PRESSURE LEVELS	X05090	ET, DEGREES	130, 140, 150, 160, PML		91.4 96.0 98.9 99.7 132.7 oc 4 100 4 101 6 100 3 135 6	3 103.8 103.4 98.9 137.8 .1 105.5 103.9 99.5 1€3,1 .9 107.1 103.2 99.9 140.1	. 1 107.6 101.4 102.0 140.5 105.6 101.8 102.2 139.9 104.8 100.7 102.6 139.8 104.8 101.3 139.8	9 100.3 97.0 100.5 139.1 S 99.0 95.5 98.6 141.3 O 95.1 95.1 95.1 95.1 95.1 95.1 95.1 95.1	8 95.0 90.9 93.6 140.4 0 94.2 90.9 94.4 139.3 1 91.3 90.7 94.0 137.6	6 88.5 87.3 90.9 (5 84.9 84.0 89.0 82.4 79.8 84.3 4 79.6 84.3	72.9 71.4 69.5 73.9 131.3 65.6 65.9 64.9 68.0 129.5 59.9 59.9 56.4 59.7 127.5 50.0 50.1 46.6 49.9 125.9	112.9 115.6 112.5 112.5 153.0 /SEC) 370.00 REFRACTION CORRECTION - YES (IN) 48.00 TURBULANCE CORRECTION - YES	ALPHA SB59	
FLIGHT TRANSFORMED MODEL SOUND	IDENTIFICATION - FJ-400-	ANGLES MEASURED FROM INLET	70, 80, 99, 100, 110, 120, 1		61.2 79.9 81.1 81.6 82.0 85.5 9	.6 86.4 85.4 86.0 90.0 .6 86.4 85.4 85.4 86.8 92.1 1 .6 88.2 86.1 87.5 88.5 94.4 1	. 1 91.2 88.7 89.8 92.1 96.9 1 .3 92.2 90.4 90.8 92.8 97.4 1 .5 92.2 91.0 91.4 93.5 95.3 1	6 93.9 92.0 92.6 94.7 99.1 1 99.5 93.4 94.1 96.3 99.1 1 96.3 99.1 1 96.3 99.1 1 96.3 99.9 1	1 97.7 97.4 98.2 '98.6 98.3 85.8 95.3 95.7 97.3 97.8 1 94.6 94.6 95.3 95.0 97.1 96.6 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8	. 1 88.7 90.7 91.2 93.1 91.6 4 84.5 86.9 88.2 89.2 89.6 .9 82.5 83.9 84.1 84.2 84.7 9 79.6 79.4 79.9 80.6 80.4	.8 71.2 74.6 74.9 75.5 75.9 .8 64.2 66.8 68.8 67.7 71.1 .4 58.2 60.0 63.0 60.1 63.5 .7 53.0 53.5 54.8 53.2 53.7	19.2 108.7 106.2 106.1 107.3 109.7 FE FACTOR FREE JET VELOCITY (FT 1.000	C41 ANECH CH AERO, RDG, ADHO18 ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE ACQUISTIC RANGE	A 40.0 TO ARC 191.0 SE
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59 0 DEG F 70 PERCENT R H SID DAY, SR 40 0 FT ARC

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R-FMODL	. 130,	68.0 95.2 97	90.0 98.3 99.4 92.4 100.3 99.7	1 101.6	9.0	4.101	99.3	97.4	2.20	93.6	88.6	8 82.8	70.8 72.5 60	5 60.9	44.2 40.5 23	!			106.4 111.6 111 111.6 116.2 113 111.8 116.7 115	FREQUENCY SHIFT	N281 IALPHA ADHOO7 PAMB	\$12E \$0 CM (1400.00
- NOIL	MEASURED F 00. 110.	2 83.5	. 7. 04.0 4. 86.6	89.6	92.8	69,1 92.1	7 93.4	93.4 93.4	8 92.8	91.8	4 87.6	7 62.8	.6 71.4	1 61.6	6.44.00 0.00	!			 101.7 103.6 10 100.6 1 108.6 110.6 1	0	TAPE NG. N.	SL 9032.2
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					ORIG OF	GINAL POOR	PAGE 1	5				37.04 75.70	FREE-JET SPEED 1.73 H/SEC (278.0 FPS)		
		3		27.8	50.00 50.00 50.00 50.00	55.7	55.8 55.8	54.0 52.9 4.0	50.7 48.5	48.8 47.7 45.8 46.0	7.6	AMB	40		
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS
59.0 DEG. F. 70 PERCENT R.H. SID. DAY, SB. 40.0 FT.

					O OI	RIGINA POOI	L PAG R QUA	E IS LITY					70	FREE-JET SPEED
		PWL	•	0. c		86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0	57.1 55.0 54.6	54.5 53.5 7	50.4 50.6 50.6		. 60	1 1	1	2
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X05110	ES	150		110	4048	0.45 4.65	=====	7000	00.00	8258	126.0	8	2	SO IN
X	DEGREES	140.	,	109.3	118.4	128.1 120.3 119.6		113.2		93.0 88.4 84.3	131.9 1	48.00	PAMB	\$1.7E 20.38.80
FMGDL	INLET	130.		6.00 6.00	4.00		119.2	4		96.3 91.7 68.7 78.9				
FJ-300-FMGDI	FROM L	120.		9.69	05.0 10.4 10.4	7.01		• • • •	07.2 05.7 02.6	94.9 92.1 87.9 76.1	5.0	l m	ADHO12	83 C8
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		FREG	63 100 25				1				_			387

				RIGIN OF PO	AL PĀ	CE IS						37.0% 75.70	FREE-JET SPEED 3 M/SEC (278.0 FPS)	
IDENTIFICATION - FJ-300-FMGDL X05115	. 50. 60. 70. 80. 90. 100. 110. 120. 130.	74.0 75.1 77.9 80.3 80.2 80.4 82.2 89.1 96.8 97.3 92.0 89.1 76.0 76.1 79.5 81.9 80.6 82.1 83.7 91.9 98.8 98.1 91.2 88.3 76.5 78.5 81.0 93.2 81.6 83.5 86.3 93.9 99.4 99.5 92.3 89.0 77 0 79 4 83.5 85.5 85.4 87.6 95.0 101.3 106.8 97.3 94.4	80.8 84.8 89.0 89.6 87.2 86.4 89.5 94.8 99.3 98.7 90.7 88.5 173 84.8 90.7 86.4 86.5 85.8 87.0 90.0 94.7 100.0 97.8 88.9 88.0 173 88.6 89.5 91.7 86.4 87.2 89.4 94.3 99.7 96.7 87.4 86.4 173 90.0 91.0 99.4 100.4 90.6 88.5 80.4 94.3 99.7 95.6 85.8 84.8 175	89.1 94.0 88.5 93.6 92.5 90.9 90.9 93.9 96.5 93.1 84.5 82.9 1 87.8 88.1 88.9 89.6 69.6 92.2 91.2 94.1 96.7 92.9 82.5 80.7 1 86.7 88.9 89.0 91.1 88.1 90.7 91.2 93.6 95.6 91.6 81.2 78.9 1	6 83.4 85.6 88.0 88.6 88.7 89.7 91.8 91.5 94.7 88.3 78.0 75.6 172 4 82.9 85.0 86.7 88.4 88.1 90.1 91.5 90.3 92.2 85.9 75.9 71.2 171 9 90.2 90.3 92.2 85.6 75.9 71.2 171 9 90.2 90.3 92.2 85.6 75.9 71.2 171 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	75.4 78.6 79.3 78.5 80.3 82.1 82.4 82.7 82.4 73.2 61.0 55.7 168. 68.0 71.3 75.6 75.6 76.5 77.5 76.6 77.8 80.0 69.5 52.7 42.7 168. 60.2 64.8 69.8 69.7 70.1 70.4 70.4 70.6 59.4 39.0 23.0 168.	28.0 36.6 41.3 41.0 43.3 44.9 42.8 45.1 37.4 22.2 166. 6.9 15.6 17.4 19.2 20.8 17.2 19.6 9.6 165.			9 97.1 99.6 102.4 103.5 99.6 100.5 101.9 105.2 109.8 110.1 101.7 99.3 186.1 2 103.1 106.5 109.5 110.4 107.3 108.1 109.5 110.9 114.2 112.9 103.5 100.6 2 103.1 107.4 111.4 111.9 107.3 108.1 109.5 111.5 114.2 114.2 104.5 101.8	DIAMETER RATIO 8.288 FREQUENCY SHIFT -9	TEST DATE 12-15-77 TAPE NG. N281 IALPHA SB59 TAMB 37 LGCATION C41 ANECH CH AERG. RDG. ADHO12 PAMB 29.4533 RELHUM 75	TEST POINT ACGUSTIC RANGE S12E SIZE S12E S11.5 H (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 84.73	
	FRE0 40	72. 74.	986.	85. 82.	90. 78.	52.	Ì	16000 20000 25000	50000 63000 63000	GASPL 95. PNL 101. PNL T. 102	•		MGDEL TE 0500	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG F. ZO PERCENT R H. STD. DAY, SR. 2400.0 FT. SL.

					OI OF	RIGINA POOF							SPEED 370.0 FPS)	
JUND NOISE			TAG.	1 146.3		7 153.6 .3 154.6 7 156.7	7	9040		- 0 4 0	4 -	TAMB 35.42 RELHUM 79.50	FREE-JET 81 MODEL 112.78 M/SEC (3)	
DAY SE 40.0 FT. ARC	FJ-400-FMGDL X05120 FJB400-FMGDL X05220	INLET, DEGREES 130, 140, 150, 160		105.4 110.3 112.7 113	107.2 111.6 113.6 111.8 115.7 115.1 114.1 117.7 114.9	118.7 120.1 1 119.8 120.9 1 119.6 121.8 1	6 121.0 111.3 0 119.2 110.4 3 117.7 109.4	1 ' '	112.1 109.1 101.2 96 110.8 106.9 99.7 95 106.6 102.6 95.6 91 103.0 98.1 92.0 89	101.8 97.0 87.9 84 97.2 93.1 82.0 78 89.7 86.1 76.7 72 84.5 80.0 71.0 66	9 75.2 61.9 57 4 130.7 124.1 120	1 ALPHA SB59 1 PAMB 29.4523	SIZE CM (20.36 SQ IN) - M	
SOUND PRESSURE LEVELS 70 PERCENT R. H. STD.	- MODEL BACKGROUND	ANGLES MEASURED FROM I 90, 100, 110, 120,		5 92 9 95 1 98 6	. 5 96.1	.9 95.3 103.2 109 .0 100.6 105.5 111 .1 102.7 106.9 112	8 104.4 108.5 114 5 106.5 108.9 114 2 109.5 110.4 114	2000	.0 106.5 109.4 110 .2 104.8 108.3 108 .4 101.3 103.5 103	6 94.0 96.1 0 88.9 91.5 2 83.5 84.2 4 78.5 78.2	.9 72.2 74.4 80 .1 119.3 121.5 124	TAPE NG. N281 AERĞ. RDG. ADHOZ1	ARC 131.5 SQ	
UNTRANSFORMED MODEL : 59.0 DEG. F.		A 06 07		2	.4 86.4 90.5 .2 89.7 91.6 .8 91.0 93.9	92.4 94.2 97.0 97.7 97.8 99.6 100.6 100.2 100.6 100.6 100.6 100.6 100.6 100.6 100.7 10.7 10.7 10.7 10.7 10.7 10.7 10.	.2 110.3 107.6 1 .6 111.9 113.7 1	.0 106.5 108.4 1 .9 105.9 108.0 1	.6 101.6 102.2 1 .1 100.5 100.1 1 .2 97.6 96.5	.5 91.9 91.4 .6 86.7 84.0 .4 80.6 78.0	68.2 70.5 68.5 6 16.8 117.9 119.4 11		ACGUSTIC RANGE 12.2 M (40.0 FT)	
				125 160 200 230 A2 9	86.1 86.4 86.1 86.9 87.6 88.7	.3 90.1 .3 101.8 1	108.4 110.5 1 105.3 106.9 1	8 103.7 7 103.4 2 102.3	96.4 98.7 93.9 \$7.3 89.7 94.2	84.0 85.8 79.2 81.1 71.7 74.7	61.9 65.7	TEST DATE LOCATION	MODEL TEST POINT 0500 0512	389

						. 4	origin F PO	AL PA	ge IS ALITY			YES		(370.0 FPS)	
D MODEL SOUND PRESSURE LEVELS T.R.H. STD. DÄY. SB. 40.0 FT. ARC	- FJ-400-FMGDL X051	EASURED FROM IN ET, DEGREES	110. 120. 130. 140. 150. 160. PWL		91.7 96.9 103.1 107.0 109.4 110.7 143.6 92.3 100.3 109.2 112.8 113.0 112.2 147.5	95.5 102.4 111.6 115.3 114.0 111.3 149.2 96.8 105.0 114.4 116.9 114.5 110.8 150.7 98.7 108.0 116.3 118.0 113.1 110.7 151.6	111.2 118.0 120.7 113.7 114.6 1 112.5 119.4 121.6 114.7 115.9 1 113.3 120.3 120.3 113.5 115.3 1	.0 118.9 117.8 112.6 114.6 1 .6 117.8 117.4 111.8 112.8 1 .7 118.3 116.2 110.9 111.8 1	114.6 116.8 114.0 107.7 109.6 1 113.1 115.7 112.0 107.3 109.3 1 112.1 113.3 110.6 105.5 106.8 1	7 107.7 108.8 105.1 100.8 103.4 1 .9 106.5 106.0 101.4 98.2 102.3 1 .1 102.8 105.3 100.3 94.5 97.1 1 .5 98.6 101.6 97.7 89.4 92.4 1	.9 95.3 94.6 91.2 84.5 86.7 .6 91.7 90.3 86.1 79.9 81.5 .7 87.8 88.2 82.7 72.2 74.1 .8 78.0 78.4 72.9 62.3 64.3	0.4 121.3 124.8 129.6 129.8 124.7 125.2 167.5 Jet Veldcity (FT/SES) 370.09 Refraction Correction - Yi Ree Jet Diameter (In) 48.00 Turbulance Correction - Yi	HA SB59 TAPB 35.	131.5 SQ CM (20.36 SQ IN) - MODEL 112.78 M/SEC (370.0	
FLIGHT TRANSFORMED	IDENTIFICA	ANGI ES MEAS	40. 50. 60. 70. 80. 90. 100. FREQ 50	63 60 100 25	160 200 250 90.2 92.4 90.8 90.8 90.1 90.5 91.1 315 90.2 92.4 90.7 90.8 92.2 91.6 92.0	90.9 92.2 90.9 91.5 93.5 92.9 94 93.2 92.8 92.7 92.9 95.6 84.8 95 94.7 94.6 93.3 94.2 97.5 95.5 56	98.4 96.0 97.0 97.5 101.5 98.5 99 101.1 101.0 102.2 101.0 103.7 101.7 102.1 105.1 105.9 104.8 103.0 104.0 102.3 103	117.6 118.2 117.2 114.5 116.6 108.8 106 113.3 113.9 115.4 116.3 116.7 114.0 109 114.6 113.6 115.6 113.9 111.1 112.3 113	109.6 109.8 110.3 110.9 112.0 110.9 111 108.4 109.4 109.2 110.3 110.1 109.5 110 106.7 108.2 108.3 110.1 108.9 108.8 108	102.1 103.8 104.0 105.1 104.0 105.2 1 99.2 101.9 102.0 103.6 100.5 101.9 94.4 98.3 97.5 100.1 98.5 99.4 93.6 95.4 95.4 96.6 95.8 95.6	40000 89.6 90.3 91.8 93.7 88.4 90.0 90.6 50000 84.4 85.2 85.4 88.2 82.4 83.2 85.3 83.00 76.0 77.9 79.3 81.1 76.9 77.4 80.3 80.0 80.0 80.0 80.0 80.0 80.0 80.0	OASPL 123.2 122.8 122.4 122.1 122.6 120.3 120.4 MODEL / FULL SIZE SCALE FACTOR FREE JET J INPUT 1.000 CALC. 1.000 FREE	LOCATION C41 ANECH CH AERO.	OSOO OS12 12.2 M (40,0 FT) ARC	THE TAX PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER

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												Gii PO			PA QU	GE	IS	A00							35, 42 79, 50	FREE-JET SPEED .78 M/SEC (370.0 FPS)	
SOUND PRESSURE LEVELS			0. 160.	90.7 84.7 187.8 91.2 84.1 169.1	89.7 83.9 170.1	87.6	88.3	88. A. 26. 51.74.5	82.3	80.4 174	76.0	8 74.5 1 2 70.5 1	6 67	55.7	3 42.2	40.3 23.0 166.3 21.8 167.3	166	165.6					99.9 96.4 165.8 101.6 98.4 101.8 98.4	6- 1-	SB59 TAMB 35. 29.4523 RELHUM 79.	SQ IN) - FUL 112.70	
STD. DAY.	FJ-400-FMODL X05125	FROM INLET, DEGREES	o.	0 92.0 94.2 8 94.8	96.7 96.8	98.3 88.4 68.3 99.3	99.5 100.1	94.3 100.2 58.5 94.3 99.7 96.7	98.1.95.3	96.7 92.7	94.5 89.5	93.1 87.1	9 69.1 82.6	6 84 7 77 8	0 77.5 68.4	70.0 69.0 59.0	8 36.0 19.9	ශ භ ග					104.8 108.9 107.8 110.9 113.5 110.5	8 FREQUENCY SHIFT	N281 IALPHA ADH021 PAMB	SIZE .2 SQ CM (1400.00	
TRANSFORMED, SCALED, AND EX O DEG. F. 70 PERCENT R.H.	IDENTIFICATION - FJ	ANGLES MEASINED E	90, 100, 110.	7 76.7 77.	77.8	96	2 84.4 86.	84.7 85.5 88.0 86.1 86.1 88.6	7 88.3 89.	6 91.3 gu.		90.2 91.0 92	89.3 90.1	85.3 86.6 87.	91.5 82.	71.0 70.7	43.9 45.3	20.3 22.1 17			•		101.5 101.3 101.7 108.6 108.5 109.4	METER RATIO	TAPE NG.	RANGE 00.0 FT) SL 9032	
FLIGHT TRANSFOR			60. 70. 80.	73.0 76.	2 75.1 78.	9 5	4 79.5 B4.	85.8 84.8 86.2	9 08.6 92. 7 95.7 98.	6 97.2 98.	2 80.0	2 90.3 90.	89.8 89.	9 84.3 B3.	9 82.1	7 70.3 70.	8 62.0 45.7	.0 19.3 18.							TEST DATE 12-15-77 LOCATION C41 ANECH	AC 731.5	
			40. 60.	FREG 69 8 72.7	72.1 73.	100 77.4 76.9	77 n 76	160 79.6 81.1 200 83.3 85.7	95.2 92	90.3 92	500 91.1 92.0 630 86.3 89.4	85 1 87		79.1 82.	70.2 76.	3150 62.0 72.5 4000 55.0 62.9	41.2 50	6300 18.2 30.3 8000	12500	16000 20000 25000	40000	63000	100.3 1	4	TES	MODEL TEST POINT	

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						OF OF	ligi P	INA I OO F		PAGI	19	3 Y						8	FREE-JET SPEED M/SEC (0, FPS)	
IDENTIFICATION - MODEL FJ-ZER-FMODL X05130 BACKGROUND	AMGLES MEASURED FROM INLET, DEGREES	50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, Pur		02 1 01 8 02 8 03 2 08 1 07 7 00 0 100 4 112 8 118 7 118 4 140 7	4 91.4 93.5 55.8 96.7 98.3 99.7 104.4 111.2 115.9 116.8 117.5 151	106.5 116.0 119.2 118. 108.8 118.4 121.0 118. 110.6 120.7 121.8 119.	8 97.4 89.4 102.3 101.4 104.0 107.9 113.4 122.2 122.8 119.3 116.9 157	.3 10.5.0 102.0 104.1 103.2 103.0 109.0 114.7 153.0 126. 8 110.8 109.1 110.7 106.8 110.2 110.6 115.0 124.9 129 4 108 9 106 % 106 6 108 & 107 6 111 2 114 8 122 % 129	.7 112.2 112.5 110.9 106.8 107.9 111.0 114.9 122.6 120.5 115.3 112.8 157.	116.9 112.2 109.7 112.2 114.0 122.5 120.9 114.6 110.9 156. 113.6 113.5 113.5 114.5 112.9 114.3 121.3 116.4 113.4 109.9 156. 110.3 111.1 113.6 113.0 113.7 119.6 117.6 111.7 108.0 155.	4 107.5 109.0 111.9 109.2 112.3 114.0 113.1 119.9 116.8 110.2 107.2 155.	105.1 110.6 110.2 110.7 114.1 112.6 110.6 110.3 106.3 100.6 104.1 106.6 110.6 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7 110.7	3 102.5 104.7 105.8 107.0 108.0 110.7 108.7 115.4 110.6 104.3 98.7 153.4 101.5 103.4 103.5 105.8 106.2 108.9 106.0 114.0 108.5 102.3 9B.7 152.	9 97.2 101,1 100.0 101.8 104.0 105.2 103.0 108.6 102.3 97.8 92.5 150. 1 94.6 97.4 98.1 100.2 99.9 100.7 100.9 104.9 98.6 94.5 90.5 149.	.5 95.5 95.9 96.6 98.2 97.5 104.8 97.9 90.3 85.2 1 .7 88.4 91.2 92.0 93.5 93.3 101.0 95.0 85.9 80.0 1	. 2 56.5 59.1 77.7 78.6 81.7 81.8 85.0 87.1 82.6 75.5 68.0 148.	75.8 77.5 80.2 84.4 78.3 68.4 59. 121.5 123.7 125.1 133.1 133.8 129.6 127.	TEST DATE 12-15-77 TAPE NG. N281 IALPHA SB59 TAMB 39.92 LOCATION C41 ANECH CH AERG. RDG. ADHOOS PAMB 29.4403 RELHUM 69.50	POINT ACCUSTIC RANGE 113 12.2 M (40.0 FT) ARC 131.5 SQ CM (20.38 SQ IN) - MODEL 0.	
		40. FREG	80 80 50 50 50 50 50 50 50 50 50 50 50 50 50	125 160 200 210	88	500 90.2 500 91.7 530 94.1	. 19	100	110.2		105.8	8000 103.51 10000 103.51	99.2 1	20000 92.9 25000 90.7	31500 87. 40000 83.	63000 71.	80000 68.4 ØASPL 120.4	S MILNE	MODEL TEST 3500 08	

UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. CAY, SB. 40.0 FT

				ORIGI OF P	NAL P DOR Q	AGE !! UALIT				- YES		ET SPEED : (0. FPS)	
	PVL		49.7 51.2		7.7 2.5 7.7	6.6 6.2 8.7 8.7	2 2 2 6 0 0 0 -	552.7 502.3 49.3 50.5	50.3 48.6 48.1 51.0	127.2 169.6 REFRACIION CORRECTION TURBULANCE CORRECTION	TAMB 39.92 RELHUM 69.50	O. M/SEC (
	150. 160.		116.4 1	117.0 1	6 117.8 7 118.1 0 114.5 3 12.5	109.9	9 105.6 4 103.2 8 101.7	7 10 10 0	9 80.0 1 6 74.6 1 5 68.0 1	29.6 127.2 169 REFRACTION TURBULANCI	SB59 I 29.4403 REL	IN) - MODEL	
-FMODL X05130			09.4 113.6 1	121.01	122.2 129.8 122.5	120.9 118.4 117.6	12.3.3	7	95.0 68.6 78.6	133.8 1	IALPHA	\$12E	
- FJ-ZER	10. 120.		99.9 102.6 1	106.5 108.8 110.6	114.7	114.0	112.6	106.0 103.0 100.9	-	123.7 125.1 133.1 Velocity (FT/SEC) Jet Diameter (IN)	RDG. ADHOO8	131.5 SQ CM	•
IDENTIFICATION			96.1 97.7	.0 99. .3 100. .1 102. 4 104.	105. 110. 107.	5 109	20.00	8 106. 2 99. 9 96.	2 92. 9 86. 6 81. 7 75.	120.7 121.5 FREE JET	CH AERG. F	RANGE 40.0 FT) ARC	
	70. 60.		ı:	.0 97. .3 98. .7 100.	104.	113.7 118.5 110.2 113.8 109.5 110.3	1 110. 1 109. 9 108.	. 4 103. . 4 100. 5 98.	.7 88. .8 81. .1 77. .4 74.	4 120.4 122.8 SCALE FACTOR ALC. 1.000	12-15-77 C41 ANECH C	Acquistic R	
•	50. 60.		92.1 91.6	. 2 93. 4 94. 9 96.	.5 102. .6 110. .7 108.	4004	. 7 106. . 2 106. . 3 105.	46-7	.1 87. 2 81. 0 76. 3 73.	8 119.	IEST DATE LOCATION	DEST POINT 0513 1	
	40. FREG 50	63 80 100 125	160 200 250 87.8 315 88.1	·	101.	108.	103	97. 92. 90.	000 83. 000 76. 000 71.	OASPL 120.4 119. MODEL/FULL INPUT 1.		MODEL TEST 0500 0	

																			•						- - - -					 ¥
										01	RÎC F	3II PC	AP OO	R	P/ QI	AG JA	E LI)į	Y										T SPEED (0. FPS)	
																,												39.92 69.50	FREE-JET O. M/SEC (
	160.	171 A	40	90.0 175.7	1	10	1.1 175.8 4 176 6	0	91	.9 173.3	4	in .	171.5	6	6.6 167.7	æ.	167.0	166.4	169.4					A 781 6				TAMB	FULL	PORREGUERARIO SPRINTITURES (* - 4) RE-
S	150. 16	95.1 90		- 60 0	1		90.6 7 04.	ļ		83.0 74. 81.0 71.	ļ		73.6 60.	1	54.4 35	N C	ı							ŀ		9-		SB59 29.4403	SQ (N) - F	
T. DEGREES	30. 140.	100	0	- IO 4	0 108	1.4 100.7	. 2 98.	1 95.	1 94.	. 9 92.7	7 88.	4 87.	8 64.3	3 73.	.1 66.	200	0 22.	0						6 112 0	7 114.	FNCY		IALPHA	\$12E	4-
FROM INLET	120. 13	88.0.86	6.	94.6 102	2	95.9 102	95.7 102	4	بر ا	92.6 97.	-	on (18 0'/9 83.9 8.58	0		<u>ب</u>	9	16.7						-	110.6 116.			N231 ADH008	2 SQ CM (
MEASURED	00. 110.		.3 85.		6	8 93.	09 K	6 63	58		. 8 93.	.1 92.		.4 83.	•		7 44.							7 104 4)	RDG.	9032.	
ANO! ES	90.	79.7.82	- 0		6	₩.		-	4 (0		87.3 UB	4	78.5 77	4.0	ဖ	21.6 23	<u>)</u>					-	109.3 109.7	, C		¥	ANGE . O FT) SL	
	70. 80.		50.0	. 60 64 - 60 64	.0	.2 86.	.1 92. 101	. 1 95.	.2 91.	3 92.	.0 90.	.6		.6 79.	4.		3 41.	19						4 104 3	6 112.2			-15-77 1 ANECH C	ACGUSTIC RANGE 5 M (2400.0 F	
-	60. 7	74.5 76	600	76.6 61	0	0	93.0	0	<u>د</u>		8	ص ا	79.4 B2	a	69.8 74	o •	10	8.3 17				:			105.1 107			TEST DATE 12 LOCATION C4	731.5	
	40. 50.	1 72.8	.6 74.		.7 94.	.1 89.	 91.	5 87.	.98 86.	.8 84.5 12 83.3	.5 82.	.a 180.	.9 77.	.9 71.	.3 65.	.2 57.	2							9 99 1	4 103.3			TEST	TEST POINT 0513	
	7	FREG 50 69		2001 2001 2001			250 88	ľ		630 81 800 80	000	250	1600 .72 2000 .70		3150 58				10000	00091	20000		63 000 8 0000	Ido				d 157d	MODEL 0500	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SR. 2400.0 ET. SL

X00135

IDENTIFICATION - FJ-ZER-FMODL

						00	RIG F F	IN/	AL I		E I	3							S-EED 278.0 FP3)	:	
			Ç	40		10 (, o -	0 (i – c	0.4	i vi a	ဖြ	6 00	ယ္ဇ	0.0	6.	.3	HB 37.04 UM 75.70	FREE-JET 64.73 M/SEC (
ao	160. PW		19.1 149.	10 0	17.1 163.	4 155		e .	10.1 137.3 06.7 156.1	0.0	+	\ \ \ -	9 149 6 148	.5 149	8 147	•	126.7 168	TAMB	HODEL		
X05140 X05230	EES 150.		114.0.1	115.6 1	117,71	116.0 1	0.27	112.8 1	4.011	107.4	4.	101.2	9.4.9	87.3	οĸ	61.3	4 126.6 1	A SB59 B 29.4562	- (N) -		
111	LET, DEGREES 130. 140.		6.4.111	8.2 113	15.8 119.2 18.0 120.8	121 2.	. 4 . c	121	20.5 110.	4 116	17.6 113.5	4 110	102	80 c	2 87	.2 76	32.0 132.	IALPHA	\$12E (20.38		
	FROM INLET, 120. 130.	•	100.1	4,	105.0	9	113.7 12	9	115.1	900		111.4	105.6	99.7		80	125.3 13	N281 ADH013	.6 SG CH		
- MODEL BACKGF	EASURED . 110.		0 97 1	9-	4.000.1	io (2 108.4	4.		-	5 E E	0.4	6 104.3	e r	7 85.3	.4 74	.1 122.5	TAPE NG. RG. RDG.	131		
Z 1	ANGLES M 90. 100		92. A 95	.7	96.0 97	4:	8 104	60	.0 108 .7 111 	07.7	07.8 109	7.0	00.2 102	~0		9	19.6 120	AE	RANGE 40.0 FT) ARC		
IDENTI	80.		0 08	92.	95.70	98	446	113.6	116.21	100	1 107.5	7 103.8	200	. R	70.0	67.	2 121.2 1	15-77 ANECH CH	ACGUSTIC RA		
	60. 70		3 89	4 90.	90.09	.1 96.	6 103	0 115		.0 107.	.2 107.	88	ស់ 4 ខ្លួ		6 K	. 17 . 8.	18.6 120.	12-	AC 12.2 I		
	50.		8 88	41	× 60 ×	-	- 6	7	6 -	200	9.00			41		-	117.6 11	TEST DATE LOCATION	T POINT 0514	•	
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					~ 6	10 - 01		. 4 O &	0 21 ~	2	10 Qi		4	0 6 6	60	REFRACTION CORRECTION - TURBULANCE CORRECTION -	B 37.04 H 75.70	64.73 H/SEC (278.0	
S FT. ARC			160. PWL		117.4 147.		120.2	118	115.6 1	113.8	109.0	103.0	93.2 151.	67.2 150. 81.5 149. 73.7 150. 63.9 148.	129.3 168	TURBULANCE	L TAMB 562 RELHUM	- MODEL	
AY SB 40.0 FT.	X05140	DEGREES	140. 150.	•	109.0 112.2	116.7 115.9 119.7 117.7 120.8 116.9	12	121.9 116.0 120.7 114.2	7 112. 0 110. 4 109.	901 0		7 100 0 97	9 86.	92.9 83.2 87.2 78.0 84.6 71.3 74.8 61.5	131.6 126.8	278.00 48.00	ALPHA SB59 PAMB 29.4562	20.38 SQ IN)	
SID. D	FJ-300-FMCDL	FROM INLET.	120. 130.		98.9 105.0	. 4 113. .5 118.	4 .	13.1 120.6 113.7 121.9	14.6 119.7 14.6 118.8 14.8 119.3	40	13.9 118.1 13.6 116.2		1 104	96.7 97.8 93.2 93.6 89.0 91.0 79.2 81.2	125.5 131.3	TY (ET/SEC) AMETER (IN)	N281 ADH013	S CH C	1
ZO PERCENT R.H.	: Z	KEASURED	100. 110.		93.6 94.6 6.75	- 0 10	- 4	900	. 7 109. . 5 110.	5 112	1.0	20 00 00 00 00 00 00 00 00 00 00 00 00 0	4 98.0	92.6 93.2 86.8 86.4 80.8 80.8 74.5 75.6	20.9 122.4	JET VELDGITY FREE JET DIAM	TAPE NG. PAERO. /	ARC 131.1	
54	IDENTIFICATI	ANGLES	80.		0. c	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	1 98 E	6 103.2	5 114.7	5 111 1	8 110.3 1	9 103.2 1	2 96 7	.5 92.2 6 85.9 7 79.8	4 121.1 1	FREE	3	ACCIUSTIC PANGE 2 M (40.0 FT) /	
59.0 DEG			. 70.		6 91.6 91	94. 1 95. 4 96. 3	98.8	7.000	1 116.7 11 1 171.0 11 3 111.5 11	110.9 11	109.4	2 103.8 1	3 98 6	8 93.5 89 8 87.3 82 7 79.6 76 2 75.3 71	.1 123.2 123.	SCALE FACIOR CALC. 1.000	IE 12-15-77 3N C41 ANECH	ACGUST 12.2 M (
			50. 60		93.0 0.0	92.7 91 94.0 94 95.1 94	95.5 96	162.2 106	112.5 114	100 6 100	106.9 109	104.1 105 102.5 103	94.4 94	1	121.9 122	NPUT 1.000 C	LOCATION	T PGINT 0514	7
6			FREG 40.	moor	200 200 250 250 250 250 250	98.9	298	10.05	2500 112.4 3150 113.8 4000 111.9	9 2		20.8	8	40000 89.4 50000 84.3 63000 76.6 80000 67.3	GASPL 122.1	HODEL		9500 0	:

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AND EXTRAPOLATED	FJ-300-FMGDL	FROM INLET	120. 130:	4	98 9 97	<u> </u>] e	94.8 101	0 99	.7 .6 97			82.3 93 89.9 91	7	84.0 82 79.4 70		92 30	=							05.6 110. 11.7 115. 12.3 115.	FREG	N281 ADH013	SO CM	•
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D, SCALE ZO PERC	DENTIFICAT	NO ES ME	90. 100.	.4 77.	9 79	3 82	7 86		6 89	6. 4. 9.29.	8 6	16 0	. 68 . 0	1 82	200	72	7 62 6 46	. 7 22.							.3 101.6 .8 109.4 4 109.4	R RATIO	TAPE AERG.	FT) SL	
ANSFORME Deg. F	10E		80.	7		82.7 61	-		4	ထ် ထဲ	92.9 90		90.1 90 87.4 89	4		72.2 72	10 10								104.8 102. 111.5 109. 112.6 110	DIAMETER	5-77 ANECH CH	ACCUSTIC RANGE	
FLIGHT TR			.02	76.3	77.6	91.0	87.6	90.00 8.00	9Z 9 1	8 8 8 8 8	0.10	90.8	89.2 87.2	86.3	82.3 78.8	72.3	44.8	17							104.2			9	
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															36.14 79.30	FREE-JET SPEED 78 H/SEC (370.0		
			147.7	151	2 153.7		7-	.4 157.2	15	. 4 154.0	998		2 140.8 3 147.5 147.5	6 150.1 8 168.0	TAMB	HØDEL 112.		
X05150 X05220	s 150. 160		711 0 711	115.1 115.	000	114.9 107. 113.4 107.	5 107 0 107	110.9 106.	9 102	105.4 100.	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	8	24.0	.8 59.	59	OH - (NI DS		
FJ-400-FMGDL FJB400-FMGDL	ET, DEGREES 30. 140.			.0 116.	225	.5 122. .4 122.	123	2.8 119.4 0.5 118.2	9:	7.3 113.5	6 109 - 107	99	1007	4	IALPH	\$12E (20.38 \$		
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DENTIFICATION	ANGLES 0. 90. 1			9 8	9 6	. 6 99.5 2 102.1	9 106.1	3 114.2	4 108		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98	.6 89.7 .6 83.1 .7 77.1	7. 0		C RANGE 40.0 FT)		
IDEN	70. 80			4 10 (3.0	95.4 98 102.3 103 103.1 104	9 6	112.4 116	97	107.4 109 107.0 108	0110	q	89.6 86 24.0 80 74.0 80	0 0	12-15-7 C41 ANE	ACGUSTIC 12.2 M (4		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS

					•			PAGE QUALIT	3				SPEED 370.0 FPS)
		7	:		6 – n u	ro vi ei c	40-0	6,7-	,	6 4 0 0	CORRECTI ON -	INCE CORRECTION - YES	79.30 FREE-JET 12.78 M/SEC (
		160. T		2.7 145.	ω w − a	664	200	. 6 156 . 4 155 . 4 155	.0 153 .6 152 .7 151	7 150 .7 150 .3 151 5 149	126.6 168.9 Refraction	RBULANCI	RELHUM MODEL 1
		150. 16		10.9 112		10 0 C	13.7	64-10 	47-0	0 - e	1	\$ 8 59	29.4523 IN) -
X05150	DEGREES	140.		108.8 1	116.6 1	122.3 120.0	110.4	D. C C	106.0 1	92.0 97.6 74.4	136.7 126.1	48.00 [ALPHA	PAMB (
FJ-400-FM6DL	- 1	130.		104.6	1		72==:		110.2	1	8 130.9 ET/SEC)	2	E
FJ-400	RED FROM INCET	. 120.		8.28	- C - C - C - C - C - C - C - C - C - C	7 112.4	122	.5 115.6 .0 114.4 .2 112.9		6 96 9 20 93 3	21.6 122.8 125.8 130.9 JET VEI OCITY (FT/SEC)	JET DIAMETER : No. N281	G. ADHO22 131.5 SQ C
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01					1	2000	47-	4-0	-	891.0 80.0 80.6	4 124.5 1% FACTOR	00 -77	41 ANECH CH ACGUSTIC RANGE P M (40,0 F
		70.		2.7	93.5 93.6 7.7	105.1		N-80	40-	95.9 91.1 84.5	124.4 CALE EA	.c. 1.000 12-15-22	ACOU
	•	8			228	100 100 100	2 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7	105	93.4 93.4 92.4 75.4	1 123.8 124. Size scale	1.000 CALC.	ATION
.•		8	. !.		2 2 2 3 3 4 4 5 4 5 4 5 4 5 4 5 6 5 6 5 6 5 6 5 6	9 6 6	3637	100.00	103.0	.0 93.2 .3 88.4 .6 81.4	124.9 124.4 123.8 124.4 124.5 Mone: /FIM: SIZE SCALE FACTOR	INPUT 1.000	LOC TEST POINT
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					OR OF	igin Pod	AL PAG DR QUA	re is Ality						370.0 FPS)	of "
IDENTIFICATION - FJ-400-FMODL X05155	ANGLES MEASURED FROM INLET, DEGREES	60, 70, 60, 90, 100, 110, 120, 130, 140, 150, 160.	76.4 78.0 79.0 85.0 94.1 95.8 92.0 86.7 78.6 78.8 79.7 97.6 96.0 97.0 92.7 96.8 79.2 80.1 82.0 90.3 97.6 98.5 92.0 86.3 81.0 82.4 84.4 92.3 100.2 100.6 93.4 89.8	78.3 78.0 79.4 80.8 87.0 85.2 85.3 87.6 84.7 100.2 130.8 91.7 86.8 774 82.3 85.5 88.5 87.0 89.1 86.2 130.8 91.7 86.8 174 82.3 85.5 88.6 87.6 89.1 86.4 89.0 95.3 101.2 98.3 90.1 88.4 174 97.6 96.5 96.0 92.9 97.3 89.3 87.3 89.3 95.0 101.1 96.8 88.6 86.9 176 95.0 98.3 98.3 98.3 98.5 98.8 88.5 86.4 127	400 92.6 93.1 95.1 98.2 97.1 97.5 93.8 92.3 95.7 97.8 94.3 86.4 83.1 1 500 92.8 94.0 93.8 93.6 93.3 95.3 95.3 95.2 97.2 93.7 84.9 81.4 1 630 87.8 90.4 92.2 93.6 95.0 92.3 93.6 94.8 95.3 95.3 95.4 91.7 82.6 79.4 1 80.4 92.2 93.6 94.8 95.3 95.3 96.4 91.7 82.6 79.4 1 80.4 91.7 92.0 93.7 93.3 94.4 88.4 79.5 75.5 1	250 83.0 86.8 88.0 91.1 91.2 91.3 91.9 93.0 91.6 91.9 85.7 77.2 72.1 1 68.3 1 60.6 80.6 84.4 86.5 89.3 88.5 89.4 90.8 89.7 90.4 83.7 75.1 68.3 1 60.0 76.8 80.4 80.5 86.1 78.1 68.3 1	72.4 77.9 80.8 84.1 81.9 83.5 84.6 83.8 84.3 82.0 74.1 64.5 58.1 64.5 72.5 74.5 79.1 78.8 80.3 79.8 78.2 79.1 78.7 69.3 55.0 43.8 57.1 64.7 68.8 72.4 73.1 72.4 72.1 71.2 69.8 59.5 41.3 24.7 64.7 68.8 5.5 61.5 51.5 52.8 61.0 61.0 66.0 43.5 22.5	2.2 14.1 22.7 22.4 23.0 24.6 20.0 20.5 10.6 168.	15000 20630 25000 31500	40000 50000 63000 80000	DASPL 102.0 103.3 103.8 105.2 105.8 103.4 102.7 103.2 105.8 110.2 108.7 101.4 97.8 187.2 PNL 106.9 109.1 110.1 112.0 112.4 110.1 110.7 111.9 114.8 111.2 102.9 99.5 PNL 107.7 102.7 109.8 111.1 112.9 113.5 111.4 110.1 112.4 114.8 111.2 102.9 100.6	DIAMETER RATIC 8.288 FREQUENCY SHIFT -9	1A SB59 TAMB 36.14 4B 29.4523 RELHUM 79.30	MODEL TEST POINT ACGUSTIC RANGE S032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 112.78 M/SEC (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (370.0500 0515 731.5 M (
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE
TIFICATION - MODEL FJ-ZER-FMODL BACKGROUND
ANGLES MEASURED FROM INLET, DEGREES
40. 50. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160.
125 180 200 250 89 5 94 1 93 6 94 4 94 5 96 8 101 6 104 6 110 6 118 3 119 0 122 1 163 3
90.1 92.4 92.4 94.5 97.1 97.9 99.6 101.5 105.7 113.2 117.9 119.6 122.7 1 92.2 93.7 94.7 95.5 97.8 98.0 100.3 103.5 107.7 117.3 121.2 121.3 123.0 1 93.5 95.0 95.3 97.3 99.4 99.6 101.4 103.6 109.6 120.1 123.2 121.7 123.1 1 96.4 97.1 98.4 101.5 100.4 103.3 106.2 112.1 122.2 121.3 122.7 123.1
100.1 97.9 99.1 100.4 103.0 102.1 104.8 108.7 114.1 123.5 125.3 121.8 122.7 159.5 115.2 115.2 107.0 105.0 106.4 105.0 106.1 109.8 116.5 125.0 126.9 121.6 122.5 161.0 116.0 114.6 110.3 108.1 109.2 106.8 107.4 111.1 117.0 124.6 126.5 120.2 120.6 160.7 114.9 115.7 114.9 115.7 114.9 115.7 114.9 115.7 114.9 115.7 114.9 115.7 114.9 115.7 114.9 115.0 115.0 117.1 124.5 123.7 118.2 119.0 160.0
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80.6 77.1 73.2 79.3 80.5 86.7 123.7 125.2 123.9 124.2 125.9 128.0 1
TEST DATE 12-15-77 TAPE NO. W281 IALPHA SB59 TAMB 39.74 Location C41 Anech Ch Aerg. RDG. Adhoos Pamb 29.4393 Relhum 70.30
MODEL TEST POINT ACGUSTIC RANGE SIZE SIZE FREE-JET SPEED 6500 0516 12.2 H (40.0 FT) ARC 131.5 SQ CH (20.38 SQ IN) - MODEL 0. M/SEC (0. FPS)
401

		CRIGINAL OF FOOR	PAGE I	Š Y		CORRECTION - YES 1 39.74 1 70.30 FREEIFT SPEED	
ANGLES MEASURED FROM IN.ET, DEGREES 40. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.	89.5 94.1 83.6 94.4 94.5 96.8 99.5 101.8 104.6 110.6 116.3 119.0 122.1 153.	315 90 1 92 4 92 4 94 5 97 9 7 9 7 9 8 9 10 10 10 10 10 7 113 2 117 8 119 6 126 400 92.2 93.7 94.7 95.5 97.8 98.0 100.3 103.5 107.7 117.3 121.2 121.3 123 2 121.3 123 2 121.3 123 2 121.3 123 95.0 96.1 96.4 97.1 98.4 101.5 100.4 103.3 106.2 112.1 122.2 123.2 121.7 121.7 123 2 121.7 123 2 121.7 123 2 121.7 123 2 121.7 123 2 127.7 123 2 127.8 122.7 123 8 122.0 123 8 122.7 113.2 107.0 105.0 106.4 105.0 106.1 109.8 116.5 125.0 126.9 121.6 122 2 120 116.0 114.6 110.3 108.1 109.2 106.8 107.4 111.1 117.0 124.6 126.5 120.2 120.2	112.2 114.2 115.2 117.3 118.1 110.6 109.9 112.5 117.4 125.1 122.3 115.3 117.8 150.1 112.2 114.2 115.3 117.8 150.1 112.6 111.4 112.6 114.4 119.0 116.7 112.9 117.3 124.7 120.9 115.6 116.1 159.1 111.1 111.6 112.4 113.2 114.8 116.2 115.2 117.6 122.8 119.2 113.9 114.7 159.1 109.9 110.7 111.5 113.0 114.1 112.6 116.6 116.3 117.2 121.4 118.0 112.7 113.0 159.1 109.2 110.5 112.2 114.6 113.2 113.6 117.2 116.9 121.4 117.5 112.2 111.9 157.	108.0 108.6 109.4 111.6 114.0 113.9 113.7 116.9 116.1 120.0 115.8 110.4 111.1 157 106.5 108.4 109.2 111.6 112.0 112.8 115.3 115.9 115.6 119.8 115.3 108.9 108.7 157 106.0 107.4 108.3 110.1 111.7 112.1 113.0 115.1 114.5 118.8 113.4 107.6 108.2 156 103.5 105.5 106.5 108.2 108.8 110.1 111.7 112.1 113.0 115.1 114.5 118.8 113.4 107.6 108.2 155 101.8 104.7 105.5 107.1 106.7 109.3 109.7 111.6 110.7 115.5 110.3 104.1 102.7 155 97.7 101.9 101.4 104.6 103.5 105.6 106.7 107.2 108.2 111.9 103.6 100.3 101.1 103.4 103.1 103.2 108.6 100.4 100.4 100.4 103.5 103.6 100.5 103.5 107.5 99.7 93.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91.2 153.0 91	87.4 89.1 91.3 94.4 91.7 95.2 95.0 96.7 98.8 103.3 95.8 87.7 81.2 83.2 86.0 88.1 85.0 88.7 30.3 89.7 94.8 97.4 89.7 82.9 76.7 78.0 80.9 82.9 80.5 82.7 85.2 85.1 91.0 92.2 84.1 78.3 72.9 74.8 77.8 80.6 77.1 78.2 79.3 80.5 86.7 89.4 79.5 71.2 123.2 122.7 122.7 123.2 123.9 124.2 125.9 128.0 134.7 134.5 131.0	INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION TEST DATE 12-15-77 TAPE NG. N281 IALPHA SB59 TAMB 39.74 LGCATION C41 ANECH CH AERG. RDG. ADHOOS PAMB 29.4393 RELHUM 70.30	00 0616 12.2 M (40.0 FT) ARC 131.5 SQ CM (

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD.: DAY, SB. 2400.0 FT. SL

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							-			66	RSI F. (ZIN PO	A1 OR	- 1	PA ZU		E (3							T SPEED (0. FPS)	
																								39.74 79.30	FREE-JET O. M/SEC (
	160. PWL	4 12	.4 176		179	0 178	178	.2 177	1.6 176.4 9.4 176.3	4 175	. 8 175 7,1	4.	7 172	171 8.	.8 172	170.4	170.0	174.0				104.2 169.6 103.0		TAMB	FULL	
	150.	4	4 a		de	0	91.6 89.10	-	86.3 81 85.0 79	4	<u>م</u> ٰ	i io i	2	0	0.0						•	106.5 10 106.6 10	FT -8	SB59 29.4393	- (NI OS	
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FJ-ZER-FMGDL	120.	89.2	6.0	95.6 103	97.8	98.1	99	97.7	97.0 96.3	95.2	900	200.7	922	81.8	74.8	8 2 V	22.7					114.0 118	60	N281 ADH009	. 2 SQ CM	
RED	10.	0 85.	0.0	90.	9 6	.0	œ 0 9 9	.96 6.	7.8 96.9 4.7 97.6	3 97.	. a . g5.	9 09 0	85.	.1	6 73.	67	.0.					5.3 106.4 2.5 113.5		TAPE NG. AERG. RDG.	L 9032	
IDENTIFICATION	90.	7	.	84.8 87	6 6		92.7 91		93.9 97	7			9	۰.	74.9 74	4	25.6 27					105.2 105. 112.2 112.	METER R	CH AE	RANGE O.O FT) SL	
	70. 80.	7	5.0	98	98	93.	Ø r	.1 96.		B 94	92,	φ	8 8	5 4	2.9 74.0	1 2	1.1 22.3					4.7 106.7 0.9 113.0	_	12-15-77 C41 ANECH	ACGUSTIC RANGE 5 M (2400.0 FT	
•	60. 7	2		9) ^	96.0	20	91.3 93	g	oi c	84.7 87	4 6	73.8 77		9 0	12.6 21					103.0 104 108.3 110		DATE	731.	
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						OI	R	GIN PO	IAL OR	P/ Ql	AGE JAL	I.	3 Y										FREZ-JET SPEED 8 M/SEC (278.0 FPS)	
		J.M.G			151.6	53.8	156.4	57.6	59.9	60.2	0.00	157.7	157.0	56.4	50.0	53.1	53.0	152.2		•	170.6	TAMB 37.58 RELHUM 74.90	94.73	
X05170 X05230		150. 160.			17.8 118.7	19.6 116.5	3 116	8 114	4.12	0.00	12.2 106.4	4 102	07.9 103.8	3 101	03.33	8 6	8 87	84.7 81.3	3 69	O.	29.3 126.2	SB59 29.4552 RE	IN) - MODEL	
FJ-300-FMODL FJB300-FMODL	ET, DEGREES	130. 140.			0.7 115.6 1	.3 121.7 1	7 122.8	0 124.1	1 125.0	3 123.0	3 119.7	4 118.0	6 115.8	3 113.6	4 109 4	104.7	3 99.3	.8 94.3	. 6 82.6	.3 77.5	.8 133.8 1	I ALPHA PAMB	\$12E (20.38 SQ	
MGDEL FJ-: BACKGRÖUND FJB:	ED FROM INLET	. 120.			103.4	0.6	7 109.4	.7 111.9	5 114.7	3.116.4	9 117.1	2 117.4	9 116.6	5 115 0	7 113.4 A 111 A	1 108.6 111.	6 103.0	5.0	5 90.7	.2 85.4	.7 127.3 133	. N281 . ADH014	31.5 SQ CM`(
1	ANGLES MEASURED	100. 110			96.6 99	97.6 100 98.4 101	100.0 103	102.0 105 103.9 107	105.7 108	109.1 111	117.8 114	113.5 117	113.7 116	112.7.115	111.3 113	106.1 107	99.1 100	94.3 96	83.7 83	76.8 79	1 124.1 125	TAPE NO AERO. RDO	ARC 1	
IDENTIFICATION	ANG	8 G. 9 0.			94.	95.3 95.2 96.9 96.8	.3 9Z.	8 5	9 104.	.6 111.	113.5 115.5	5 112.	113.0 112.9	2 111	0.00	102.4 104.2	.0 98	90.4 93.5	8.5 80.	.5 76.	124.7 123.4	15-77 ANECH C!!	STIC RANGE (40.0 FT)	
		60. 70.			9.7 91.	91.7 92.5 92.0 94.8	1 96	100	108	117	11.4 111.9	-	7 110	8 109	107 201 201	00.6 103.2	.2 98	•	90	N.	2.2 123.2	12-	ACGUSTI 12.2 M (
		. 20.			89.4 8		92.1	104.7	112.6	113.5	9.00	108.4	5 107.6 1	106.1	104.5	8 100.0 10	92.5	- 6	76.5	72.0	8 121.3 12	TEST DATE	TEST POINT 0517	
		40 FREG	8 8 8 5	•	1	00 89.	- 1	00 98.	1250 113.	-	3150 109.	7-	6300 107.	٦,	2500 102.	20000 96.		40000 86.			GASPL 120.		HODEL TE 0500	 -

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS

SE. O DEG. F. ZO PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC.

						L	PAGE QUALI	IS TY			- YES	•		
		P.F.		۲	ω r . α π	a – e c	00,7	F 4 0 4	ဆက္ဝ	0.000	.4 N CORRECTION	E CORRECTION	ī	84.73 H/SEC
		160. P		116.6 148	118.7 154 119.5 155 119.5 156	116.2 159	112.6 158	100.3	102.2	99.4 1 76.1 1 66.2 1	1	TURBULANCE (552 R	- MODEL
X05170	DEGREES	140. 150.		112.0 114.0	120.1 119.5 121.5 120.4 122.9 120.6	0.00	- 0.00	-48-	6 6 8 8 8	5. 67. 57. 67.	132.8 129.4	46.00		20.38 SQ IN)
FJ-300-FM6DL	FROM INLET.	120 130.		100.9 107.5 102.6 111.5	106.3 115.8 108.2 118.3 110.6 120.5	0 0 4 6	0076	118.1 121.0 117.0 120.0 115.8 118.6	0.00	4000	.7 1 (FT/	DIAMETER (IN)	7	> W2 C₩ (
•	MEASURED	100. #10.		4. a 0. a 0. a 0. a	96.6 96.0 97.8 100.1 99.4 102.3	01 - 10 h	0000	000	0 6 9 6	10,000	7 7	<u>P</u>		ARC 131.5
IDENTIFICATION	ANG! ES	90.		20.00 20.00 20.00	6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 107.9	24.00	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 197.2 9 105.0	4 6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 124.9 1 FREE	i.i.	H CH PANOF	10.0 FT)
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		. eo		95.0 93.	93.7 94.0 95.0	98.4 1	9.55	112.8 113	108.1 109 106.5 107 102.6 102	94.9 90.1 83.1	126.0 1	000	•	
		FREG 40.	8.00 0.00 8.00 8.00 8.00 8.00	160 200 250 91.5	92. 94.	102.	574	2 2 2 3	106 104 99	4 8 8 2		INPUT	MODEL TERM	e l

											OR OF	IGI P	00	IL IR	P/Q!	A(U)	iE \Li	IS	5									9 O O	FREE-JET SPEED 3 M/SEC (278.0 FPS)	
	=	FWL 2.6	- 6		4	۰.	4.0	20		ø. •	\ -	9	6 6	.7	4 c		2	ui e	•					.7			6	5	64.73	
		FWL 1 172.6		176	176	1 177	179	91	177	.3 176	176	176	6 175	173	4 173	172	172	173	5					6 189	D 10		4446	RELHUM	FULL	
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S	150.	96.2		98.5	94	9.19	90.0	88.5	85.0	83.8	8	78.1	75.5	64.	56.1	24.								1	105.6 105.6			26. 4.	SQ IN)	
DEGREES	140.	99.0	100.4	103.4	102.7	100.1	98.1	90.0	94.7	92.8	90.5		8 8 9 9 9	75.1	2.5	46.3								110.9	112.9	ICY SHIFT	4110	PAMB	S12E (1400.00	
INLET	130.	96.2	98.7	02.5	220	03.8	02.9	90.7	- 8 - 60 - 8	98.5	97.4	92.6	93.4 4 .6	96.6	82.7			•						112.4	117.2	FREQUENCY	•		1	(
FROM 11	120.	87.8	•	94.1	94 9	96.4	96.2	97.1	97.0	97.0	97.3	94.5	92.6	86.9	82.8		50.6							07.6	14.2 14.8			NZ81 ADH014	SQ CM	
IRED	110.	30.2	92.3	86.2	88.3	11	4	١	96.6	97.3	97.3	96.5	94. 92.3	86.8	81.6 25.4	100	48.6	ai					3	9	3.7	8.288			9032.2	:
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

IDENTIFICATION - FJ-300-FMODL X05175

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		-			ORIGI	VAL PA	AGE IS	<u>-</u>		-			FPS)	
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	IDENTIFICATION - FJ-400-FMODL X05180	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL.		93.9 98.0 94.4 94.5 93.4 93.8 94.9 96.0 100.7 107.6 111.5 114.1 115.5 148.2	. 9 95.5 94.4 95.1 97.3 95.9 97.6 99.5 106.3 116.7 119.7 119.1 116.6 154.0	39 101.3 101.5 102.2 113.8 105.0 108.0 109.2 114.7 123.1 125.0 118.9 120.3 159.1 3.8 121.2 115.2 112.4 110.4 107.2 105.5 108.7 115.8 123.5 118.4 119.7 161.7 3.1 121.0 117.5 112.2 114.3 108.8 107.1 109.8 116.1 123.7 122.2 116.8 119.5 160.4 3.1 12.0 117.5 112.5 121.0 114.4 109.8 110.1 123.7 122.2 116.8 119.5 160.6	74 118.2 118.4 120.4 119.9 118.6 113.8 112.2 117.5 122.1 120.3 115.3 117.4 160.7 117.7 116.9 116.7 115.9 116.4 117.7 114.9 117.5 121.2 118.6 115.0 117.2 160.0 116.2 115.9 116.6 113.5 117.0 116.9 118.5 121.6 319.0 113.7 115.3 159.6 115.7 115.3 159.6 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115.7 115	9 114,6 114.8 115.1 116.9 115.6 115.5 117.3 117.9 120.3 116.8 111.2 113.7 159.2 9 113.7 113.4 114.8 114.9 114.8 116.3 116.9 119.5 115.6 110.8 112.9 158.6 9 113.2 113.3 114.6 114.4 114.3 114.6 116.0 115.7 115.7 113.7 109.1 111.4 158.2	.8 108.8 109.0 110.4 109.3 111.5 110.9 112.6 112.1 113.5 197.5 104.7 107.3 156. 107.7 107.8 109.9 110.4 105.8 108.0 107.9 108.0 107.8 111.1 111.1 104.6 101.5 105.9 155. 2 104.1 103.5 106.1 104.3 105.5 105.1 103.6 107.5 111.0 104.3 98.9 102.3 155. 3 99.4 100.4 101.7 101.9 102.0 101.6 101.2 104.2 107.3 100.9 94.3 97.6 155.	.2 95.1 96.3 98.6 94.0 97.2 97.1 97.1 100.8 101.3 93.9 89.5 92.1 154.6 91.9 92.4 95.1 88.1 90.1 91.8 69.9 97.8 96.8 69.1 85.1 87.5 154.9 83.8 85.5 87.0 82.8 84.3 87.3 84.5 93.0 95.7 86.9 78.6 80.8 155.9 75.2 78.1 79.1 78.6 80.1 79.7 79.7 83.2 85.9 77.1 68.8 71.0 153.	130.7 128.1 126.7 126.7 127.5 125.6 125.2 125.9 128.3 133.6 133.4 129.1 129.7 172.1 MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FIZSEC) 370.00 REFRACTION CORRECTION - VES INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - VES	LOCATION C41 ANECH CH AERO, RDG. ADHO23 PAMB 29.4513 RELHUM 79.30 TEST DATE 12-15-77 TAPE NO N281 IAIPHA SB59 TAMB 36.14 LOCATION C41 ANECH CH AERO, RDG. ADHO23 PAMB 29.4513 RELHUM 79.30	516 12.2 M (40.0 FT) ARC 131.5 SQ CM (20.38 SQ IN) - MODEL 112.78 M/SEC (
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL.

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X05185	EES	. 150, 1	95.8	95.7	9 0 0 7	95.2	94.5	92.6	90.1	89.1	2. Z	83.4	82.3	77.4	72.4	66.4	58.7	26.7									104.6	105.6 1	SHIFT -9	A SB59 B 29.4513	SQ IN) -		***
	INLET, DEGREES	130. 140	٦	•			, ,	_	- 1			- 1		1 94.7 88.2 3 93.4 86.2	- 1				1	16.5							13.0 111	117.3 113.6 117.8 113.6	ENCY	I ALPHA PAMB	\$12E		
- FJ-400-FMODI	SURED FROM 11	10. 120.	- 1			96.	96.	97.	98.	97.	98.	97.	93.	93.0 93.0	90.	89	82.	93	.3 50.	. 8 24.							3 108.3	7 114.7	. 288 FI	3. N261 3. ADHO23	9032.2 SQ CM		
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		60. 70.	8.0 77.3	.87	5 G	9 84	.4 94.	6 94.	9 101	.1 97.	.0 96.	95	4.	9.7 92.3	.9 89.	.8 87.	.7 83.	4 66	.4 52.	.2 25.							. 8 107.5	.4 114.3		12-1 C41	ACGUSTIC 731.5 M (24		
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FJ-ZE	INLET	130	•	5	952	97	96	96	9 9	92	8 8	888	8 6 2	73	59 50	43	107.	33	- - -	`.	
RGUND	FROM	120.		8	989.	98.	93.	93	88	92.	60	36.	96.	73.			104.4	N281 ADH003	.5 SQ		
MODEL BACKGROUND	SURED	110.		2	83.28 87.0 87.0	22.0	91.6 92.0	91.8	9 6	90 80 -	89.2	86.5	84.8 80.3 74.9	71.7	67.0 59.4		102.7	NG.	131		
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UNTRANSFORMED MODEL SCUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC

						ORIGIN F POO	AL PA R QU	GE 18			CORRECTION - YES	ET SPEED	M/SEC (0. FPS)
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59 0 DFG F ZO PERCENT R. H. SID. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-ZER-FMODL X05190	ANGI ES MEASURED EROM INLET, DEGREES	40, 50, 60, 70, 30, 90, 100, 110, 120, 130, 140, 150, 160, PWL 50	63 80 100 125	160 200 250 71.8 77.8 76.1 76.9 77.7 80.6 82.7 84.1 86.1 91.1 95.0 97.7 89.9 132.1 315 73 6 76 7 77.4 80.0 81 1 81.7 83 6 85.2 87.9 92.0 96.6 99.3 101.7 133.7	74.4 77.9 79.5 80.0 82.1 82.7 84.8 87.0 89.5 95.8 99.7 101.8 103.0 136. 76.5 79.8 79.8 81.6 83.7 84.8 85.2 87.3 90.0 97.1 101.0 102.9 103.6 137.7 76.6 80.1 80.9 82.9 85.5 84.9 87.0 89.2 91.4 97.4 101.8 103.8 104.2 137.7 6.6 80.1 80.9 82.9 85.5 84.9 87.0 89.2 91.4 97.4 101.8 103.8 104.2 137.7 101.8 102.5 103.5 137.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 1	81.7 84.0 84.0 84.5 87.6 86.7 88.6 91.0 93.7 97.5 99.9 101.1 102.3 136 80.0 84.1 83.8 85.6 88.4 88.1 89.4 91.6 93.7 96.6 98.8 98.2 100.1 135 81.1 81.9 83.7 85.5 87.6 87.9 89.3 92.0 93.8 95.8 97.0 96.0 97.0 134 81.3 81.3 81.3 81.3 81.3 81.3 81.3 81.3	81.3 82.4 82.6 85.4 87.7 87.5 89.5 91.9 93.3 95.5 93.4 91.4 91.1 132 80.3 82.9 83.4 85.4 87.5 87.7 89.6 91.9 93.6 94.0 92.7 89.7 132 79.6 81.7 89.8 91.3 92.7 92.1 91.0 87.5 87.5 130 25.7 95.6 91.7 85.8 87.5 97.5 87.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 9	78.5 80.9 81.7 84.1 86.5 86.6 87.9 90.1 91.3 90.5 86.1 84.9 84.3 130 77.0 80.4 81.5 83.4 84.0 86.1 87.0 89.2 89.9 90.3 87.0 80.3 81.3 80.7 129 75.2 78.4 80.3 80.4 81.5 82.4 83.7 84.8 86.2 89.1 88.7 88.6 85.4 81.3 80.7 129 75.2 77.4 87.4 87.4 87.4 87.4 87.4 87.4 87.4	71.1 75.2 76.8 78.7 78.0 81.1 82.5 84.9 84.0 83.5 79.6 76.4 74.5 126 66.8 72.0 72.5 75.4 74.8 77.6 79.3 80.3 80.8 80.0 75.7 71.6 70.3 124 65.8 72.5 63.5 63.5 67.5 69.3 71.3 72.5 74.5 75.2 74.9 77.3 77.3 67.4 66.9 123 67.4 66.9 123	55.9 56.1 60.1 64.2 61.6 64.9 65.8 67.0 67.6 67.3 62.6 55.6 54.2 1 48.7 51.0 53.3 56.8 56.0 58.0 60.3 59.4 62.9 59.0 44.8 47.7 43.4 46.9 1 37.0 44.8 47.7 48.9 48.9 48.3 51.8 55.0 52.1 56.9 50.8 47.7 43.4 40.5 1 37.0 40.4 41.2 48.2 55.0 57.1 56.9 50.8 47.7 43.4 40.5 1	91.4 93.8 94.5 96.4 98.5 98.7 100.5 102.7 104.4 107.3 109.7 110.8 111.8 146.8 MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FI/SEC) 0. REFRACTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE	5-77 TAPE NG. N281 TAIPHA SB59 TAMB 41 ANECH CH AERG, RDG. ADHOO3 PAMB 29.4523 RELHUM 68 USTIC RANGE SIZE	8

				•					OF OF	RIG : F		IAL OF	. P	AG U	λĽ.	IS IT												41.36 68.20	FREE-JET SPEED M/SEC (0. FPS)	
		7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	55.4	56.2 55.8	54.9		51.7	51.0	50.6 40.6	20.00	48.5	47.6 3.0		43.9	41.6	. 6 . 5 . 6	37.6	36.8	37.6							164.0		TAMB	0	
	160.	76.4.1	6	77.4 1 76.3 1	-	9.	- -	7	~ -	53.4	Ŋ.	ט ה ה	6	90	1.9	خـر		_	-							80.3 80.3			- FULL	
S	150.	78.6		80.4 79.1			6.89 6.89	- 4	-	59.7	- 4			4 .	27.2	•										86.7 84.3	FT -9	SB59 29.4523	SQ IN)	
DEOREES	140.	. 78.6	• •	80.7 80.6			73.6 73.6			66.2		52	56.1	46.6	_	29.2	4		•							87.9 87.7 87.7	ICY SHIFT	I ALPHA PAMB	\$12E (1400.00 \$	
INLET	130.	76.2		77.8	. 4			- 4		70.0			61.9	54.6	•	0.14 0.0	4 .									86.9 89.2	FREQUENCY		CM (140	
FROM	120.	71.0	7	72.9	75	74.	4.4	73.		71.6	200	68.8 67.4	•	57.9	٠	44.00 20.00	15.6									84.8 89.2 2		N281 ADH003	2 50	
ASURED	110.	9	69	73.4	73	5.5	56	73.	22.		9	68		28	5	4 6 4 6	16.									83.8 88.7 88.7	8.288	E NG.	9032	
ANGLES MEA	100.	67.5	67.		77	<u>.</u> :	::	7	2 2	69	9	66.		58.	53.	46 6	20.									82.0 87.1 87.1	RATIO	TAPE AERG. F	3 S.L.	
ANG	8	60	67.	67.6	69	5,5	. 69	69	69	67.	67	65 65		57.	52	4 8. 8.	18									85.4 85.4	DIAMETER	퓽	RANGE 10.0 FT)	
	90.	2 64.7	96.	- 68.1 8 68.8	70		, é	69	6.7	67.	67.	6 6		5.	20	4 6	15.									80.2 84.7 84.7	70	-15-77 1 ANECH	ACGUSTIC RANGE 5 M (2400.0 F	
	76.	000	63	4 65.1 3 66.3	99	67	0 66.6	99	9 6	9 64.8	20 8	2 G 0 G	0 59.6	53.	48	01 0 4 0 4 0 4 10	14.									82.3 82.3		5 2	AC6 731.5 P	
	99	61.0	61.	62. 63.	65	63	2 2	63			g	5 59.0 5 59.0	56.	49	44.	•	9									9 74.8 8 79.1 8 79.1		LEST DATE		
	8	3 58.4	60.		64	9.6		9	6	89	28	8 8 9	9 53.5	9	39.	ဗွ် ဧ										72. 76.		TEST	ST POINT 0519	
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		FREG	9	<u>8</u> 6	12	160	250	315	400 100 100 100 100	089	908	1250	1600	250	3150	4000 7000	6300	8000	10000	16000	20000	3150	40000	63000	80000	OASPL PNL PNL PNL			MODEL 0500	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

IDENTIFICATION - FJ-ZER-FMODL X05195

		,				OI OI	RIGI F P	NA 00	NL I	PAG	E IS								EE-JET SPEED /SEC (278.0 FPS)	
	9. PVI		4 126.7	00	- 6	2 129		0 127	.4 126 .6 126	125	. 4 124.0	.1 122		.5 117.	.9 113.7 .2 112.5	.8 112.	.5 140.0	TAMB 36.14 RELHUM 77.20	FREE-JET	
1	DEGREES 140, 150, 1⊄9		90.3.92.7.93	1 93.3	95.2 93.9 68.	8 91.3 82	93.8 85.4 81	0 81.7	88.2 80.1 75 86.7 78.6 74	7 76.1	82.8 75.3 73 81.3 74.1 70	6 70.7	64.3	8 55.6	3 43.8	.9 26.8	04.1 101.7 98	IALPHA SB59 PAMB 29.4572	SIZE 20.36 SQ IN) - M	
FJ-300- FJB300-	FROM INLET, DE 120. 130. 1		A0.7 A6.3 9	6 96.7	6 6	6 92.5		4 90.3	87.5 90.2 8 87.5 88.2 8	86.8	85.5 85.5 84.4 85.0 62.0	80.1	4.0	67.0 61.0	53.0	38.7	98.8 101.9 10	N281 1AL ADH016 F	SI2 5 SQ CM (20	
- MODEL BACKGR	MEASURED 00. 110.		78.7 78.4	3 78		2 85	63. 60 60. 60 63. 60 66. 60	9	a n	33.2 85	82.7 85.1 81.6 83.9	79.2 61	74.3 75	65.9 66	0 4 55 4	.2 40	94.9 97.3	TAPE NG. AERO. RDG.	ARC 131.	
IDENTIFICATION	ANGLES		8 72.8 74.2	75.2 76.	8 28	80.7 80.	6 82.4 82.0	82.3 82.	8 82.	81.3 81.	9 81.0 81.4 5 78.9 80.5	75.7 77.		64.6 65.	2 49.4 55.55 2 49.4 55.55 2 43.5 45.9	39.0 40.	3 93.0 93.3	2-15-77 11 ANECH CH	ACCUSTIC RANGE 2 M (40.0 FT)	
	. 60. 70.		5 70 4 71 8	72.2 73.	73.9 76.2	76.1 78.		77.0 79.		75.9 78.	9 75.4 77.9 6 75.7 77.9	4.5	66.7 69.	60.8 63.	48.4 51.	37.1 39.	4 86.3 90.	TEST DATE 12-1 LOCATION C41	12.	
	40. 50		67 8 70	.6 71.	72.5 74.	0 74.	76.	.2 76.		3 75.	72.5 74.	4.	62.2 66.	8.58	. 4 a	.5 36.	86.6 87.	1 1	TEST POINT 0520	

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						origi of P	NA OO	IL PI	AGE UAL	IS ITY								YES	7 E S					
					S	a e	8	N 98 (3	- W C	e c) T K	O 0	7	9	20 CJ 60	60	CORRECTION -	CORRECTION :	IB 36.14 IM 77.20		64.73 M/SEC (
ď			75		124,3		128.	126.	126.	126.	126	20.00	123	120	118	115.	139.	REFRACTION	LANCE	RELHUM		Ę,		
T. ARC			160.		90.9	89.8 87.9 86.8	87.7		93.1	80.6	79.0	76.3	4		54.8	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	98.5	REFRA	TURBU	.4572		- MODEL		
LEVELS 40.0 FT	Q		150.		90.0		4 1		4 -	78.6	4 -	38.5	4	62.4	4 •	39.5 29.5	•	d		29.4		SQ IN		
	Q	DEGREES	140.		67.5	93.3 94.2	4 .	88.9	4 -	88. 85. 60.		79.6	4			51.0 46.5	ıo.	278.00	48.00 0	PAMB		20.38 S		
SOUND PRESSURE	MODI.	INLET, D	130.		83.5 4.6			0.08		85.8 87.0	4 .	82.3			4 .	51.5 47.1 37.3	9	(SEC)	2	1	•	-		
SOUNI	FJ-300-FMGDL	FROM IN	120.		79.3	- ^-	9		ed (4) I	86.9 86.8	900	83.5 83.5 83.5	78.6	25.3		58.2	98.4	EE	DIAMETER	ADH016		SQ CM		
MODEL.	,	SURED FE	10.	. :	75.6	240	- 1				1		i		İ	55.6 4 8 . 6 6 4 . 6	,	VEL CICLTY	JET DIA	NO S	•	131.5		
GRMED		MEASU	00.		9.0	V 0 4	4 4		40	~ B ·	9.0		n io R	900	0	0 V 4	Q.	JET VE		AFRG R		ARC		
TRANSFORM	DENTIFICATI	ANGLES	-		.2 75	-00	9	. 4 93 . 6 82	901		- m	0 8 8	0.0		0	n 01 -	4	EREE	i.	AF		1	1	
H	-	4	8		74		d	9 60 60	d -	4 01 8 83 6 93	1	6 83		101	1	000 844	9 00			10		40.0 FT)		
- L			00		73.	1	82	4 - 62. 7 - 83. 83.		6 8 9 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1	6 8 8 8 8 8		3 T S		66 53	1	FACTOR	000	12-15-77 641 ANECH		ACQUISTIC 2 M (1	:
ğ			70.		74.0	4		8 80	85.	9 2	85.	8 9	27.5	52.5		8 4	93.4	SCALE			•	12.2	٠.	
1			.09		73.6	1		9 6 6		80.7	79.7				٠.	56.4	4 .	SIZE S	0	INST DATE				
			20.		74.7			78.7 80.0 81.2		o - ∙			4 -	70.5	d o	55.9 47.7		ZEULLS	1.0	IESI	<u> </u>	TEST POINT		
			40.		73.1	4		80.3 80.3 80.3	4 *			80.6 77.1			e 6		91.9	MODEL 21			-	IESI)	l ,
4:	 4 		FREG	8 8 5 <u>7</u>		4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g	1550 1600 1600	- 1		1		l .	22000	40000		GASPL		SNIL			MODEL		

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS
59.0 DEG F, 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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													di di	RIC F	GIN PO	14	R	Ç	PA QU	4	e Li	IS TY													ET SPEED (278.0 FPS)	
			16	, .	46.9	46.5	10.	. 4	04			10	9	vi æ	9 09.	6	4	1	aj o	- T	u	o								•				NB 36.14	FREE-JET 64.73 M/SEC (
			7 7 148	=	-	- -	1-	_		144.7		9 144	144		- (-	٦	140	_	138.5		2 6	133								157				TAMB RELHUM	ب	
		160	63	•	•	90.0	56.	54	52.8	d	9	48	45	4 4	36.0	- 4	23.0	•												68.0	99	_		572	- FULL	
33		150.	8	70.3	68.1	65.6	60.6	58.5	56.7	50.7	52.2	51.4			45.00 0.00		31.1	22.3												78.6	21.2	۰ ا-		SB59 29.4572	SQ IN)	
X05205	DEGREES	140.	72.2		73.1	71.7			65.2			59.9		9.00			40.5	_	24.0 0.0	4										20°	29.4	K SHIFT		I ALPHA PAMB		
MODIL.	- 1	130.	8.69	4	71.0	o	-	o.	۲.	٩٠	'n		۹,	0.00 0.00	. 0	4	ل ة (43.8	ص ه	9									ı	80.0 82.0	- 1	FREQUENCY		Ξ-	SiZE CM (1400.00	
€J-300-FMGDI	IRED FROM INLET,	120.	64.6	ď	9	68.4	ب ا	4	91	٧	φ		۹.		. eo	4	<u>-</u>	4 1	39.00	3 6	-								1	78.8	ł	FR		N281 ADH016	SO CM	
	RED EB	10.	7	9	-	٠ •	0	ø	<u>~</u> 1	9	. 0	0	٩) (C	, or	٩	œ.	41	٠. ٥	١-	-									7.6 3.2 0		288			032.2	
TION	MEASUE	<u>-</u>	4 61		0 64	0 66]	0	9	֓֞֟֓֓֓֟֟ <u>֟</u>	. •	99	٦	_	9 62	1	•	4 4	4 6	7 "	•								'	6 83 83	٦	ø,		TAPE NO RO. RDO	06	
DENTIFICATION	NGI ES P	100	60	-		. 49 8. 69	1					•	4	9 6		ı	22	20.	4. 6.	1	2								1	. 76 82.	- 1	RATIO		TAP AERO.	્ર જ	
DENT	ANG	8	59.9		62.2	63.5			•	65 3			4		• •	- 4	54.5		43. U	4										76.0 82.0				•	IC RANGE 2400.0 FT)	
		90	60. B		64.1	64.6 51.6	1 -	65.8	•	4 .		64.6	54.7		59.7	- 4	52.B		9 C	ł.	;									76.6 81.7		DIAMETER		5-77 ANECH CH	2400	
		70.	59.4	•		62.69 50.09		63.5	63.2	1 .		61.7	62.2		58.6		53.0		47. E	i	i							-		74.4 80.1	4			12-15-77 C41 ANECH	ACGUSTIC 5 M (240	
		.09	+	N	60	- a	-	₩.	٠. ٥	۹	· -	φ.	4 0	1 0	4	4	د	N F	٠ ه	-	ŗ									- 0	٩		1		731.	
			3 57			. 00 00 00 00 00	-		1 61	1	10		1	- 01	4 57	1	8 51		200											8 72 0 77	0 22			TEST DATE	<u> </u>	
		20	56			. a	l		8 S	28	90				23		4 6 6	4 c	מ מ		•								1	70.9				<u> </u>	3T POINT 0520	
		6	52 7	٠	56.5	59.9	ι.		59.2	1.		56.2	24 A			ı	42.9		10.4	7									1	69.1 72.8	4				TEST	
		0303	200	63	0	125	160	200	250	400	200	630	PDD C	1250	1600	2000	2500	3150	00 K	6300	8000	10000	12500	20000	25000	40000	20000	63000		OASPL PNL	PNLT				7300£ 41	5

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					,		0)F	IGIN PO	IAI IOI	_ [? (PA(U	GE A	: 1: TI.	S Y										SPEED 370.0 FPS)		
07/19/7 E					•																			35.96 78.90	FREE-JET 2:78 M/SEC (
BACKGROUND NO! SE	ARIC				6 7 7	2 125.6	9 126.7 4 127.3	127	3 126.8	- 126 B 126	125	4 125.4	5 124	123	1 122.8	122	3 120.8	117	116	9 114.9		-:	.4 138.3	TAMB RELHUM	MODEL 11		
	X05210 X05220		150. 160		0	10		۹.	8 69	- 7	۰.	78.1 76. 76.9 77.	4 76	ro e		4		64.2 61.	9	49.7 47.		oi.	98.6 97.	SB59 29.4543	- (NI		
CORRECTED FOR	1	DEGREES	. 140.			89.5	92.1 93.4	93.5	.6 93.1 .0 91.6	91.0	87.2	85.8 84.0	82.8	85.0 0.0	79.5	77.2	72.2	69.3	1		4 4 8 6	ဗ	4 101.8	I ALPHA PAMB	S1 ZE 20.38 SQ		-
(A)	•	FROM INLET,	120. 130			0.1		90	888	5 88	.3 89		2 85	.3 85	. 7	7 81	.0 78 .4 76	73.5 73.	99 0.	61.1 59.		.1 38	97.7 100.	N281 ADH017	SG CM (•	,
SSURE	MODEL BACKGROU	ASURED FR	110.		a c			٩	883 843.6	8 50.2 8	85.1	<u>م</u> 10	7	ب ص 1	. ~	82.3	80.2 78.3	73.7	62.9	60.8	2. 2. 2. 2.	39.6	96.1	E NG. RDG.	131.5		
SGUND PRE	₩ '	ANGLES ME	90. 100.		7	6 75	. 2 77.3 . 6 78.3	BO	. 7 . 8	3 0	5 82.		7 82	.4 82.	90.	1 79	or io	3 72.	8 64	.2	g (C	.9 40.	.7 93.6	TAPI AERO.	E FT) ARC		
		*	80.		9 07	4	75.2 75	7		80.5 80	0	80.5	Œ	۲,	77.1 78	۲		67.8 70		10 I	44.0	6	91.4 91	-15-77 11 ANECH CH	STIC RANGE (40.0 FT)		
UNTRANSFORMED MODEL	59. 0. DEG		. 70.		,	2	9 73.8 8 74.5	76	1 76.8 8 76.8	::	77.	77.6	77	76	3 76.7	74	72.		62.		00 4		88.8	-2	ACGUSTIC 12.2 M (4		
IND			50. 60		9	.17	72.7 72.0	1 74	73.1 75.	, 76. 9. 76.	.3 75.	75.	0 74	.2 74.	72.7 74.	2 72	9.4 70.	.3	7 59.	93	. 4 47.	6.0 38.	5.9 87.	TEST DATE	POINT 121		
			6.		9	6	70.1 7	.	ه ه		D.		id	oj (, o	٩	- 0	~	8	۲.	4.4	-	86.3 8		TEST OF		
416			Chon	00 8 8 0 00 00 00	200 100 100 100 100 100 100 100 100 100	315	4 8 0 0 0 0	630	1000	1250	2000	2500 3150	4000	2000	9000 9000	1000	12500	20000			20000		OASPL		HODEL OSOG		

				•		OR OF	GINAL POOR	PAGE QUAL	is TY			N - YES N - YES		-JET SPEED EC (370.0 FPS)
I. ARG			160. PWL		88.7 122.0 89.1 124.6		0 126		2 1 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 123 7 123 0 120 120	8 118 0 115 2 115	101.5 139.4 Referaction correction Turbulance correction	1ANB 35,96 43 RELHUM 78.90	FREE-JET - MODEL 112.78 M/SEC (
PRESSURE LEVELS	XOS	T, DEGREES	130. 140. 150.		1.6 84.9 87.3 6.3 89.2 89.4	. 9 92. 6 92.	2 88.2 83.8 83.8 83.8 83.8 83.8 83.8 83.	5 86.6 82. 9 85.8 81.	3 82.4 2 81.2 5 79.7	2 70.7 69. 6 67.8 65.	.4 57.3 .8 52.3 .9 46.9	100.2 100.9 97.9 (SEC) 370.00 (IN) 48.00	IALPHA SB59 PAMB 29.4543	\$12E (20.36 80 IN)
MODEL SOUND R.H. STD. DA	- FJ-400-F	EASURED FROM INLET,	. 110. 120.		73.1 76.9 6	77.7 81.2 8 78.2 83.2 8 79.9 85.0 8	3 86.9 3 87.7 7 87.7	85.0 89.1 86.5 88.8	85.5 86.4 84.2 85.2 84.1 83.7	80.2 77.9 75.4 76.5 70.9 71.4	6000	96.2 98.7 Velácity (et Jet diameter	TAPE NG. N281 RG. RDG. ADHO17	131.5 SQ CM
FLIGHT TRANSFORMED	106	ANGLES MEASU	80. 90. 100		.4 72.6 72. 0 73.8 74	75.4 76. 77.8 77. 78.2 79.	.0 80.3 81. 6 81.6 82. 7 81.8 82.	1 82.5 83. 2 82.8 84. 9 81.9 84.	. 9 62.9 83. .1 81.8 82. .1 81.1 81.	77.5 78. 73.3 75. 71.0 71.	.2 61.2 61. .0 54.4 56. .7 47.6 50. .8 41.9 43.	8 94.2 93.4 94.6 FACTOR FREE JET . 000	H CH VE	ACCIUSTIC RANGE 2 M (40.0 FT) ARC
59.0			50. 60. 70.		4.4 73.6 74.1	. 9 73.5 74. 6 76.4 77. 6 77.4 77.	.0 79.8 80. .2 80.5 80. .7 81.0 80.	3 80.6 81.5 81.2 81.2	.4 80.1 80. .1 80.8 81. .6 79.4 81.		2 56.6 59. 2 49.8 51.	1.4 92.3 92. 1. SIZE SCALE .000 CALC. 1	IEST DATE 12-15-27 LOCATION C41 ANEC	12.
			40. TEG	6.0 0.0 2.5 2.5	73.7 7	75.1 77.1 79.9	98.00	80 00 00 00 00 00 00 00 00	1	75.3 72.7 67.9	40.4	OASPL 94.5 92		MGDEL TEST POINT 0500 0521

						OF	RIG F	iiN O	AL	PQ	PA NU	SE AL	IS	1													35.96	78.90	FREE-JET SPEED 112.78 M/SEC (370.0 FPS)	
		PWI.	145.8	145.7	145.2 45.2		45.6	144.9	144.8	144.2	143.55 43.55	141.4	140.3	137.9	137.0	135.6	133.0							167.5			TAMB	RELHUM		(* a d is valent) - ald grig
	160.	61.3	63.8 65.4	64.1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	28.7	58.7	55.4	55.1 51.9		46.7		•	•											72.5				- FULL	
S	150.	66.2			60 80 9.00	57.3			53.3		40 6 6 6 -		•		- 1										71.3	8- 1-	SB59	29. 4543	SQ 1N)	
DEGREES	140.	70.0		70.3 ZD D	67.8	64.4	62.8	61.2	59.9		54.3			2.53 2.62	. 4									78.9	78.6 78.6	ICY SHIFT	ALPHA	PAMB	\$12E (1400.00 \$	
INIET	130.	68.2	69.3	9 e	68.5	68.2	66.7		65.4 64.0		59.6			33.4	. 4									79.5	82.3 82.3	FREQUENCY			CM (146	
	120.	62.B	66.4	68 68 3	68.3		69 6		• •	64.1	62.4	55. 55.9		38.7		11.0									83.7		N281	ADH017	2 80 (
ASURED FROM	110.	9	62.1	6.4 6.5 6.4	66.0		67.4	66.7	65 65 65 65 65 65	64.1	63.0	. 4	54.0	4 4	30.5	12.4								77.1	82.7 82.7	8.288	N S		9032	
ANGLES ME	100.	60		63.3 64.2	64.	93		9	65.3	63.	62.2	. 1		42.0		16.2								26	81.8 81.8	RATIO	TAP	AERO.	S C	
ANG	8	80		61.8 62.9	64.1	63.7			63.2		61.6			4 4 2 4 2 6		15.1							-	74.9	80.8 80.8	DIAMETER		퓽	1C RANGE 2400.0 FT)	
	90	9		64.0 64.0	•		4 .	64.0	63.3		51.55			4 / 4 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /										75.7	80.6 80.6	DIAI	-15-77	I	ACCUSTIC I	
	90.	7 22				62.7	62.6	62.2	6. La	61.6	60.7			4 6 6		16.6									7.9.7		5	12	ACGI 731.5 M	
•	60.	. 0		61.7	61.	62.	9 2		4.00 4.00		58.1		51.7	37.6										72.4	78.1		F DATE	LOCATION		
	90	£.	6 6	59.4	60.2	59.0	6 6 7 7	58.9	58.2	58.5	55.7			43.7	. 1	1.9									76.2		TEST	i i	T POINT 0521	
	6	2		69.9 59.9	50		35	36.	10 10 10 10 10 10 10 10	35.	51.7	. 48 48	43.												74.5				TES	
	:	FREG	8 8 80	100	160	520	315	200	630	1000	1250	2000	2500	3150	2000	6300	8000	12500	16000	25000	40000	•	90000						MODEL CSOO	

X05215

IDENTIFICATION - FJ-400-FMODL

6.1.7 Measured Acoustic Data for Model 6

ORIGINAL PAGE IS OF POOR QUALITY

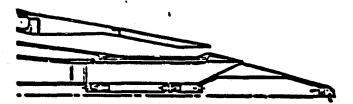
R_r = 0.901 conic outer nozzle

(7)

 $R_r^i = 0.902$ conic inner nozzle

 $A^{1}/A^{0} = 0.324$

without struts in outer flow



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										OF	P		OR	Q	•	AL.													1 39.92 1 22.40		FREE-JET SPEED O. M/SEC (O. FPS)	
Ş	IRC IRC				PWL				-		 o		 - e	2		 o 0		- a	ю.		-				. 6	4 142.2	6 163.8		TAMB		MODEL	
PACKOP	40.0 FT. ARC	X30010		150. 160					11.6	9		0 (5 4 	3		N 4	0	φ N	0.	2	6	- n o	9	ö 4	r –	75.9 74. 68.4 67.	28.5 125.	!	SB59 29.5000		- (NI	
CTEN EAD	1	FMODL	DEGREES	140.						•				•			• • •	116.2 11	6.4	-	0	- , o	٠	. (c	9 4	78.1 7 73.9 6	127.8 12	i	ALPHA S PAMB 2	1	SI ZE 17.07 SQ	
S CORPECTED		FJ-ZER-FMGDI	INLET,	130.						200	2 =	=:	2 =	111	112	2 (1	123	2 12 2 2 3	128	100	106		96		84.	9 77.9 5 72.5	8 123.9		99		€ 5	
DE I EVE	ENT R.H. STD.	MODEL BACKGROUND	ED FROM	0. 120					1.	8 5 8 5	.6 101	2 103	. 8 . 105 . 106	107	108	2 0	12	109	108	90	50.	36	26	2) q	84	74.1 79.9 69.1 74.5	.0 119.		N300 ADH1		110.1 89	
PRESS.	PERCENT	•	MEA	100. 110					0.	. .		96.8 99			Ю	 9 @	60				6	- 3 (0	6 .	- a	. 4	75.2 74 68.1 69	14.3 117		TAPE NO AERO, RDG		ARC	
	F., 70 PERCE	DENTIFICATION	ANGLES	.06					9	.		0 (3 63	4	6,0	. 9	7	9 P	~ 0	υ	40	, v	- (N C	9	74.9 63.6	114.1 11		CH A		3 RANGE 40.0 FT) /	
MADE!	O DEG.	IDENT		80.					88	9 9	97.	108	96	.66	98.		101	101.	50.5	0	50.	66	96.		91.	73.7	113.9		-16-78 1 ANECH C		ACGUSTIC R	
TRANSFOR	59.0 DEG			60. 70.					.8 88.	9 K	90.	92.	.3 84.	2 99.	.1 97.	9 0	. 8 102.	. 9 102.	6 100.	9 100	.90	2 86.	0 92.		.8 80.	.3 73.7 .1 69.0	.2 112.0		82		ACC 12.2 P	
3				50. 6					9	ú L	. 00	9 1	٥	g	9	7 N	8 102	G 60	101 6	<u> </u>	. 5 9 9 7	4 94	B) (œ	68.9 71 62.6 66	1.7 112		LOCATION		3001	
				40.	4				0	<u>ه</u> م	, N	.	7) (V		01	- 6	4	6 4 	6-	- lo	0 (20	ი .	- o	0	68.0 62.5	111.2.111				TEST P	
O·					FREG 50	80	00.	2 0 0	250	8 6	200	630	900	1250	1600	2500	3150	4000 5000 5000	0009	10000	12500	20000	25000	31200	20000	00000	GASPL				MODEL. 6	

				ORIG OF P	NAL POOR Q	AGE IS VALITY					ED), FPS)
										88	1 22.40 1 22.40 FREE-JET SPEED 0, M/SEC (0,
FT. ARC	. 160.		7 112.9 145.9	6 114.6 149.6 0 114.6 150.5 0 157.7 151.6	116.3	2 113.5 152.3 4 110.2 151.8 0 109.0 151.9 6 107.1 150.8	105.9 105.5 104.1	6 101.1 147.6 5 100.0 147.6 9 96.9 146.6 6 94.2 145.4	89.6 84.4 79.3 74.4 67.1	REFRACTION TURBULANCE	5859 TAMB 29.5000 RELHUM 1N) - MODEL
R.H. STD. DAY, SB 40.0 FT. - FJ-ZER-FMGDL X30010	7, DEGREES		9 109.3 112.	5 113.0 113.0 116.0 16.6	117.1 118. 116.0 118. 116.9 119. 117.2 119.	117.0 11 6. 117.0 116. 117.6 115. 116.2 111.	2 114.6 111. 0 112.8 110. 4 111.4 108. 5 110.1 107.	9 107.8 104. 4 105.3 102. 6 101.9 99. 6 98.1 95.	94.9 90. 89.6 85. 84.4 81. 78.1 75. 73.9 68.	46.00	IALPHA 3859 PAMB 29.56 812E 17.07 SQ IN)
R.H. STD. DAY, - FJ-ZER-FMODL	SURED FROM INLET,		. 1 97.6 103.	100.65 101.3	105.4 106.6 107.4 108.6	001 001 001 001	6 108.6 1 6 108.5 1 7 106.3 1	5 103.3 6 103.3 7 6 100.9	6 94.5 96.4 7 89.5 90.9 9 84.7 94.9 1 79.9 77.9 1 74.6 72.5 0 119.6 123.9	20	G. N300 G. ADH169 110.1 SG CM (
., 70 PERCENT DENTIFICATION	OLES MEA		9 6	0.00 0.00 0.00 0.00 0.00	9 98.6 5 99.7 4 101.8	7 101. 6 102. 7 102. 3 102.	7 104.6 2 103.7 6 102.5	2 100 9 7 97 6 1 94 6	6 85.9 81.4 6 66.1 1.4.3	FREE JET VELC FREE JET	TAPE NAERO. RD
.0 DEG. F.			60 60	97.2 94 108.3 95	2 94.8 1 96.7 0 99.3 1 1 98.2 1	7 97.8 7 99.8 1 3 101.6 1 6 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 102.3 6 101.6 0 101.6 1 7 1	0 101.0 5 100.9 6 99.3 7 1	9 89.9 90. 9 89.9 90. 7 73.7 74. 0 67.2 68.	FACTOR . 000	18-78 ANECH CH BUSTIC RANK
8	. 60. 70		67.6 6	8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	93.7 98.3 99.2 97.1	100.5 101.9 102.9	100.00	5 92.0	95.0 85 77.8 80 71.3 73 66.1 69	ALE C. 1	ATION
	40.	1	0 60	86.4 88. 87.7 89. 88.8 91.	92.9 51. 98.2 58. 95.1 97. 99.0 96.	101.7 101. 103.9 102. 103.4 103. 101.3 101.	98.9 100. 98.1 100. 96.5 99.	84.0 87. 92.3 96. 87.0 93.	73.0 74. 73.0 74. 68.0 68. 62.5 62.	MODEL/FULL INPUT 1.0	TEST LOC TEST POINT 3001

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

		IDENTI	I DENTIFICATION	•	FJ-ZER-FMODL	DL X30015	016			
		ANGLES	MEAS	URED FROM	M IN ET,	T, DEGREE	E3			
.40. 50.	0.0	0. 80.	ö		120. 13	130. 140.	150.	160.	4	
50 67,4 71.0 73,4 63 68,5 72,9 75,2 80 72,5 72,8 75,9	73.6 80. 75.2 91.	7 79.1	79.78 80.24	80.6 83.	9 6 6	7 96	4 10 (89.0 169.7 89.8 170.9		
77.8 79.1 80.	9 0	82.	0	v 6	8 6	-	95.7		? 9 .	
78.2 77.5 79.	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 6 6 4 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 6	ω 4	9 8	m –	96.4		9	
80.7 81.9 82. 82.6 82.6 83.	3 80	8 82. 6 83.	e 6		9.9	0.96.0	9.00	86.3 171	- 1	
91.7 63.8 84.	4 1	2 65.	4	، ما	93	6	90.6	- J '	OF	
77.8 80.2 82.	. 6 . 8 . 8	4 65.	ے ق		3 6		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		P	
75.9 79.9 82.	2 83	7 85.	0		6		83.9	-	DC	
72.9 77.6 81.	N O	9 85. 85.	n e	60 (2	98		81.6 70.0)K	
2 76.1 79.	82	94	.	.	. 6		76.9	66.4 166.8	PA	
62.3 71.8 74.	σ	8 83.	- 0	2	3 29	5 a	70	6		
59.9 67.3 72.	5 79	2 80.	-	. 6	7	4		9 - 6		
55.6 62.4 68. 46.0 53.7 61	N 4	4.5	91	72.6 73	92	ю.	5	9	•	
29.7 39.9 48.	1 4	58	وا	ار	40	- S	- 60	1		
7.8 20.7 30.	N	4	N	9			•	161	- 4	
.	6 0	oi Oi	10	a,	a n	o.		162	6	
12500										
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١										
									•	
MASPL 89.5 91.5 93.2 PNL 84.0 97.3 99.5 1	93.9	6 96.6 7 105.6	96.6 9	98.8 101.0	0 104.0	106.3	7.70	98.2 162.6 97.5	9	
PNLT 94.7 97.8 99.5 1	01.	8 105. U	03.6			109.5	105.8	97.5		
	10	AMETER	RATIO 9	9.056	. FREG	FREQUENCY SHI	FT - 30			
TEST DATE	03-16-78	2	TAPE		N300	IALPHA	\$B59	TAMB	39.82	
NOTI VOCI	-	5	Ž	.	80	OLY.	ZW. 5000		22.	v:
MODEL TEST POINT 731	ACGUST .5 M (1C RANGE 2400.0 FT)	ا د	9032.2 8	CH3 OS	\$12E 400.00	- (NI OS	FULL	FREE-JET SPEED O. M/SEC (O. FPS)	į
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ana s																											j	39.56 21.20	FREE-JET 3.26 M/8EC (
ARC NOISE	0.0		160.	Ĭ				02.9 141.1	06.5 144.0	3 144	.4 145	97.0 145.2	. 4. 14. 14. 14. 14. 14. 14. 14. 14. 14.	4 144	94.0 144.7	94.0 145.9	94.3 145.8	24.8 145.6	0	93.7 145.7 92 8 144 A	9 145	6	66.8 343.6	· ·	7	59.2 140.8	113.7 158.6	TAMB O RELHUM	MODEL 118		
AO.O FT. ARC	DL X30020 DL X01400	DEGREES	150.					 . 2 .		á	1	0.00 0.00 0.00 0.00	. 9 103.3	7 100.6	,00,0 100,0	20.7	101.6	2 101.2	6 100.3	0 C	0.90 0.90 0.00	6 94.6	0 t	6.19	.0 76.0	0 62.0	118.9	HA 5859 HB 28.5450	- (NI OS Z		
S CORRECTED . DAY, SB	FJ-400-FMGDL FJB400-FMGDL	INCET, DEG	130. 140.	•					201 20 201	-	107.2 111	108.3 111	- -	106.5 108	109.4 108	- ~	109.3 108	108.2 108	.6 106	106.9 105	50.	26 97	96.39 8.39	69.0 86	82.2 80	73.0 73 68.6 67	120.4 121.4	I ALPHA 2 PAMB	S12E CH (17.07		
SSURE LEVELS NT R. H. STD.	MODEL BACKGROUND	MEASURED FROM	110. 120.					90.2 92.6		96	4	96.2 101.2 e7 6 102 8	. 0	6	00.8 105.7	i ri	02.4 105.9	04.8 105.6	0 106	03.7 105.5	00.4 102.2	8 99.	93.5 97.0	8	94,	72.7 72.5 67.2 72.6	13.7 116.7	NG. N300 RDG. ADH152	0.1 80		
SOUND PRE 70 PERCE		ANGLES MEAS	90. 100.					20 8	. 4 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4 5 . 4	7.	.1 92.	6.6	95.	.1 96.	9.6	00.00	3 100.7	9	1 100.9 1	9.88 0.	.79	.0	.7 93.	.0 85.0	.1 80.5	5 67.0	.9 110.6 1	TAPE AERO. R	ARC		
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### BOLD FOR THE SQUAD PRESSURE LEVELS CORRECTED FOR BACKGROUND MOISE 93.0 DEG. F., 70 FERCENT R. H. 510. DAY, 58 40.0 FT. ARC IDENTIFICATION - BACKGROUND EACKGROUND FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR FACTOR	FREE-JET SPEED M/SEC (0, FPS)
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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Tellooped Civilse (School Charles)	59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - FJ-300-FMODL X30040	ANGLES MEASURED FROM INLET, DEGREES	FREG 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.	.1 88.8 86.5 86.7 85.9 87.1 88.0 88.6	85.1 86.8 86.5 87.0 87.4 86.5 86.2 69.3 94.4 187.0 87.0 87.7 86.8 89.1 90.3 96.2 188.6 88.6 88.6 89.1 90.3 90.0 90.6 91.7 98.4 1	89.1 89.5 90.6 91.4 99.6 91.6 91.9 94.0 100.8 107.7 112.1 113.2 106.7 14	93.3 91.2 92.2 92.7 92.9 94.4 94.8 96.3 103.4 107.3 110.9 110.7 104.5 146	94.8 92.8 93.9 94.9 94.9 96.1 95.9 97.9 104.1 107.9 110.5 108.6 108. 94.0 95.0 96.2 94.7 95.0 97.2 96.7 99.1 105.1 108.7 109.9 107.4 103.	98.7 94.6 95.3 96.8 94.8 96.4 96.9 99.3 105.0 109.8 110.9 108.3 1 102.9 101.6 100.2 101.8 99.1 97.8 99.1 100.7 106.4 109.5 112.1 109.0 1	104.9 104.7 104.1 103.6 102.4 101.6 99.6 101.6 105.9 109.3 112.1 108.6 105.2 148 103.6 103.8 103.8 103.3 102.0 103.0 101.3 102.0 106.5 110.1 111.9 107.7 104.8 148	103.1 102.7 104.1 102.5 102.5 103.0 102.3 103.3 107.0 110.0 110.7 107.1 104.8 148 102.6 102.6 102.9 102.4 101.8 103.4 103.3 104.0 107.2 109.9 109.4 105.1 103.3 148	102.2 102.6 102.2 102.4 102.3 103.5 102.7 104.7 107.2 109.4 107.8 104.0 102.9 147 101.4 102.4 102.0 102.0 103.0 103.8 102.3 104.2 105.5 107.5 106.4 102.7 102.3 147	99,7 101.3 101.9 100.9 102.0 102.5 101.2 102.4 104,7 107.3 105.2 102.7 1 97.5 98.8 99.7 100.9 101.4 102.3 100.2 102.0 103.0 104.7 102.5 101.4 1 95.4 97.3 98.1 99.3 100.8 101.5 98.1 98.5 101.7 101.3 100.3 98.3 1	92.8 95.7 95.8 96.1 99.1 98.5 95.3 94.4 98.3 39.5 97.1 93.5 95.5 146.	31500 90.8 91.7 93.3 94.5 93.4 93.6 91.9 91.6 95.6 95.6 93.8 90.6 94.6 14 40000 87.0 86.0 89.5 89.6 92.8 80.6 94.6 14 50000 87.0 86.0 89.5 89.6 95.8 84.6 92.0 87.1 87.2 91.0 89.3 88.0 86.0 88.5 14 50000 83.6 82.9 85.3 84.0 84.6 83.0 80.7 86.7 83.4 82.1 80.5 83.0 14	80000 66.2 65.5 68.2 72.7 69.6 71.2 68.8 67.7 71.0 69.3	0ASPL 112.6 112.7 112.9 112.7 112.8 113.3 112.2 113.6 117.4 120.9 122.9 122.0 118.3 160.6	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 302.00 REFRACTION INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE	TEST DATE 03-16-78 TAPE NO. N300 IALPHA SB59 TAMB LOCATION C41 ANECH CH AERO. RDG. ADH151 PAMB 29.5450 RELHUM	MODEL TEST POINT ACCUUSTIC RANGE SIZE SIZE SO04 12.2 M (40.0 FT) ARC 110.1 SQ CM (17.07 SQ IN) - MODEL 92.05	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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		¥	165.3	65.5	164.7	164.4	165.3	166.5	167.2	167.2	167.1	167.1	166.7	166.6	166.5	100.0	165.8	164.5	162,8	162.0							179.5				TAMB		
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X30045	DEGREES	140.	91.5	50	000	99.0	89.8	90.8	80.4	68.1	86.4	4.4	0 C	78.3	75.6		5.4	38.8	17.4						-		101.2	02.0	E SE		ALPHA PAMB	S1 ZE 100.00 SQ	-
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DEL SOUND PRESSURE LEVESS CORRECTED FOR	ERCENT R.H. STO. DAY, SB	IDENTIFICATION - MODEL FJ-ZER-FMODL X30060 BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.					5 85.1 83.3 84.1 85.2 87.8 89.5	3.7 84.9 86.0 87.3 89.4 89.8 91.7 95,7 102.3 106.1 108.6 107.7 142.	. 2 80.4 80.7 86.0 87.3 88.7 80.8 91.9 93.8 98.6 108 .0 86.0 88.0 67.3 88.4 90.8 91.9 93.8 98.6 108	6 87.4 88.4 88.2 92.0 92.4 93.5 95.9 100.4 108.7 111.9 111.8 108.9 146	.9 67.3 69.4 90.7 91.3 93.2 94.3 97.5 101.7 109.0 111.6 110.6 106.7 146 5 92.5 94.3 92.8 92.7 94.8 95.7 98.8 103.6 100.6 110.8 110.4 107.6 146	1 92.2 93.4 93.2 94.3 96.7 96.8 100.0 104.2 109.5 111.4 110.3 107.0 146	2 91.1 91.6 92.4 93.7 95.6 97.2 99.9 105.1 110.0 111.2 109.6 106.6 146	7 82.5 83.2 82.0 83.1 85.4 87.1 101.0 106.0 111.1 110.6 109.2 104.5 146	4 92.7 93.3 93.3 94.6 96.7 98.3 102.0 105.8 110.2 109.0 108.2 103.7 145	8 91.9 92.9 93.1 93.9 96.3 97.9 102.1 104.9 108.6 108.2 106.6 102.5 145.	. 4 92.8 93.6 93.3 94.5 97.9 98.6 101.8 103.9 108.7 107.0 106.2 105.4 143	0 93.7 93.3 94.2 95.2 97.6 98.9 101.8 103.5 106.6 106.4 105.8 101.8 144	7 93.8 94.7 94.3 86.6 98.5 59.2 101.5 102.3 105.4 105.3 105.1 101.2 144	99.2 101.6 480	5 87.1 89.1 51.7 95.7 97.3 95.0 96.1 97.0 98.7 97.6 98.3 94.3 143	3 78,2 83.4 85,8 87,1 87,8 83,0 88,3 90,9 92,5 90,8 87,8 86,4 141	3 73.6 78.3 80.6 85.1 86.0 82.8 83.4 85.3 87.3 85.5 82.6 81.8 1	8 59.8 64.4 67.3 68.9 70.6 72.3 70.7 76.6 73.8 74.3 75.7 37.8 76.7 38.8 39.8 64.4 67.3 68.9 70.6 72.3 70.7 76.6 73.8 74.3 74.3 75.7 75.8 74.8 74.8 75.8 75.8 75.8 75.8 75.8 75.8 75.8 75	6 53.4 57.9 62.9 62.0 64.5 64.7 65.0 70.4 68.4 70.8	101.3 104.1 105.1 105.4 107.1 109.2 109.9 112.7 116.0 121.1 121.9 121.6 118.7 158.6	Chart Cana Alle La Cook Ma Table To Table Cook	LOCATION C41 ANECH CH AERG, RDG, ADH158 PAMB 29.5700 RELHUM 23.	RANGE SIZE SIZE	16.6 T (40.0 T) AND 110.1 SE CT (17.0/ SE IN) - HOUEL 0.		
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE

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1 2		150.	84.2	85.2	91.7	81.3	81.1	91.	9.00	77.9	77.8	77.3	76.4	2.5	65.8	60.0	50.3	37.0	9. 8.									92.5		-T -10	•	SBS9	29.5700	ŝ	
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	•	RANSFORMED MODEL SOUND PRESSURE LEVELS
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

														NA OO					IS ITY											(299.0 FPS)
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - MODEL FJ-400-FMODL X30110	rJB400-FMDDL	ANGLES MEASURED FROM INLET, DEGREES	<u>40. 50. 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160. </u>					.4 73.9 74.0 75.6 76.2 77.4 79.5 62.0 63.6 90.5 95.2 98.	7 75.3 75.6 76.0 77.1 79.9 79.8 81.9 85.7 92.3 96.3 98.5 95.2 131	.5 76.1 76.7 78.5 80.5 81,3 83.1 86.8 95.7 98.6 99. 4 79.5 76.0 82.4 82.0 82.7 84.7 84.1 97.0 99.5 97.	6 78.0 79.2 79.5 92.2 82.7 83.6 87.2 90.7 97.9 100.3 95.5 86.9 134	3 78.1 79.8 80.9 82.0 84.1 85.3 88.3 93.1 98.7 100.9 93.0 85.1 184	.6 78.0 81.6 81.9 83.0 85.3 86.8 89.7 94.7 99.6 99.5 90.6 83. 2 81 5 83 0 83 3 84 4 87 0 87 7 00 0 05 1 00 0 00 0	.6 80.2 82.2 83.5 84.6 87.5 89.1 92.3 96.3 100.0 99.2 90.1 83.6 135	9 81.6 83.4 83.9 84.7 87.9 89.5 93.0 97.5 100.6 98.0 89.7 83.7 135	3 83.4 84.4 84.5 86.2 88.3 90.7 94.2 97.7 101.1 97.5 89.9 83.1 136	.4 64.0 64.0 63.8 87.0 89.9 91.0 93.3 96.7 99.9 97.0 90.2 82.7 136.	.6 84.5 85.5 86.4 87.8 91.1 92.8 95.7 97.5 100.2 98.0 91.4 84.4 1	39 84.5 86.3 87.0 88.5 92.1 83.0 95.7 97.9 100.7 98.5 92.2 88.7 137. 5 84.7 84 86 9 89.7 60 100 00 00 00 00 00 00 00 00 00 00 00 0	6 85.8 86.7 87.0 89.1 92.0 92.9 95.5 96.7 99.4 97.5 93.5 87.7 137	2 85.1 85.8 86.6 88.4 91.3 91.5 94.1 95.1 97.3 96.2 92.8 87.5 136	. 5 85.0 86.0 86.6 88.5 80.5 80.2 92.9 93.9 96.3 94.9 91.9 87. .9 83.0 84.1 85.2 88.4 89.8 88.2 90.0 92.0 92.9 91.8 90.1 85.	2 78.1 80.9 81.7 86.1 87.4 85.5 85.8 89.5 88.2 87.3 85.7 83.5 135	.8 75.4 78.6 90.7 90.5 82.1 82.0 82.7 86.2 87.0 84.8 81.0 78.3 135. 3 70 1 7% 6 75 3 78 8 90 3 76 6 77 8 90 8 90 7 70 7 75 7 7	. 9 63.2 65.9 68.6 70.8 72.3 72.3 71.5 75.7 73.5 72.5 70,0 67.9 1	.8 57.0 59.1 62.0 62.4 64.3 65.5 64.7 70.3 66.0 65.2 63.3 61.6 131. .3 50.4 53.9 56.8 55.5 57.4 57.5 57.9 63.1 59.1 59.3 66.2 53.4 131.	94.3 95.6 96.9 97.C 100.1 102.0 102.9 105.8 108.5.111,7 111,1 107.2 102.1 149.4	TEST DATE 03-16-78 TAPE NG. NBCS IALPHA SB59 TAMB 38.84 LOCATION C41 ANECH CH AERG. RDG. ADH156 PAMB 29.5700 RELHUM 21.90	ACGUSTIC RANGE 2.2 M (40.0 FI) ARC 110.1 SQ CM (17.07 SQ IN) - MCDEL 118.26	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59:0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X30115

DENTIFICATION - FJ-400-FMODL

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MODEL	SURED	110.			- 1		92.8	• •	90 0 0 0	98.6	99.7	100.4	100.7	102.0	101.9	102.3 101.8	100.8	100.8	9 6	94.9	80.8	9 0	76.4	70.3	,	0.2	RDG.	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

IDENTIFICATION - FJ-ZER-FMODL X30125	ANGLES MEASURED FROM INLET, DEGREES	50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.	67.3 69.6 70.4 78.4 74.4 75.6 77.1 80.4 88.6 90.2 88.7 83.3	69.1 71.7 73.2 75.0 76.7 77.7 81.0 84.4 89.4 90.5 88.5 83.2 1	72.4 74.5 74.5 75.8 78.0 79.3 81.5 85.3 89.7 90.1 87.5 82.2	72.9 75.1 75.6 77.1 79.6 80.3 82.6 85.8 89.3 90.6 88.2 82.1	71.5 73.8 74.9 76.6 79.4 80.1 83.1 86.3 90.3 90	72.8 74.8 74.8 75.1 78.5 80.1 63.3 67.0 90.3 50.0 65.6 60.3 72 5 74.8 75 75 75 78 1 1 83 8 85 8 91.3 80 9 85 8 78 1 1	73. 74.3 75.6 76.9 79.7 81.4 84.1 87.3 89.5 88.6 76.8 185.3	72.4 73.7 74.7 76.0 79.0 80.5 83.7 85.7 88.8 86.3 82.4 74.7	72.7 73.5 74.6 76.2 79.4 80.4 83.9 85.0 88.4 85.2 81.1 72.9 164.3	73.2 74.6 74.7 76.5 79.5 80.5 83.2 84.2 86.6 83.8 80.1 72.5 163.8	74.1 74.9 75.0 76.6 78.9 80.0 82.1 83.9 85.3 82.6 78.6 70.4 163.5	73.8 76.1 76.9 77.5 79.6 79.3 82.1 83.7 81.2 78.4 68.8 163.4 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3	7. 3 7. 4 3 7. 6 5 7 8 5 7 8 5 7 8 7 8 7 8 7 8 7 8 7 8 7	67 6 71 7 74 7 75 7 75 7 75 7 7 7 7 7 7 7 7 7 7	62.3 67.4 70.0 74.9 76.6 73.1 72.5 74.3 70.9 67.2 62.3 50.0 160.8	56.9 63.8 67.5 69.3 70.4 69.0 68.8 69.6 68.0 62.1 52.7 37.2 160.4	48.0 55.5 59.9 65.2 67.0 62.0 61.7 61.5 59.1 51.4 39.6 19.7 160.2	33.4 42.3 48.7 52.6 54.2 52.1 49.8 50.9 45.5 36.4 21.5 158	2 24.6 32.5 35.3 37.2 37.7 33.9 35.3 25.7 13.8	. 5 11.6 15.1 13.2 10.9 9.5								84.4 85.4 87.3 92.7 91.3 91.8 94.5 96.9 100.6 100.2 97.7 91	91.1 94.0 95.7 99.0 100.2 98.7 100.8 102.4 104.9 103.0 99.6 92.0	91,1 94,0 95,7 99.0 101.3 98.2 100.8 102.9 104.9 103.0 99.6 92	DIAMETER RATIO 9.056 FREQUENCY SHIFT -10	TEST DATE 03-16-78 TAPE NG. N300 IALPHA SB59 TAMB 40.28	LON C41 ANECH CH AENO: NOG: ADIII4E CAI COO NELINI EE
		30.	67.3	69.1	72.4	72.9	77.00	8.27 8.07	73.3	72.4	72.7	73.2	74.1	73.8	74.0	67.6	62.3	56.9	48.0	33.4	Ņ									84.4 85	1.1 94	91.1 94		TEST DA	
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FREE-JET SPEED M/SEC (0.

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SIZE 9032.2 SQ CM (1400.00 SQ IN) - FULL

ACCUSTIC RANGE 731.5 M (2400.0 FT) SL

TEST POINT 3012

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4 80.3 82.6 84.6 65.3 85.3 75.4 72.1 164.5 90.3 82.3 83.5 77.9 70.8 164.1 84.2 83.5 77.9 70.8 164.1 80.5 80.6 83.6 84.2 83.5 77.9 70.8 164.1 80.6 78.3 80.6 80.6 80.6 80.3 77.8 71.7 63.5 162.0 90.3 77.3 79.5 79.7 70.3 77.9 70.3 77.1 76.4 74.2 67.4 58.1 162.0 90.3 77.1 76.4 74.2 67.4 58.1 162.0 90.3 77.1 76.4 74.2 67.4 58.1 162.0 90.3 160.9 157.8 158.6 159.0 90.3 77.1 76.4 74.2 67.4 58.1 160.9 157.8 158.6 159.7 7 33.4 35.0 26.0 15.5 38.4 20.8 158.6 159.9 153.2 99.2 101.3 103.3 105.6 105.7 101.6 95.0 95.0 95.0 101.3 103.6 105.7 101.6 95.0 95.0 101.3 103.6 105.7 101.6 95.0	3 79.4 6 79.3 82.6 84.6 65.3 95.7 75.1 67.4 163.1 2072 2 79.0 79.3 80.6 80.6 81.8 81.0 75.1 67.4 163.0 0072 2 79.0 79.3 80.6 80.6 81.8 81.0 75.1 67.4 163.0 0072 3 78.6 78.3 76.6 77.7 76.4 77.7 6 77.7 6 71.8 67.4 163.0 0072 3 78.8 75.3 76.5 77.1 6 8.5 81.0 10.0 161.0 0072 4 76.3 72.3 74.3 77.1 6 8.5 81.0 161.0 0072 5 6 5 6 1.7 61.2 61.3 59.1 53.2 59.1 20.5 160.3 0072 5 6 1.7 61.2 61.3 59.1 63.2 59.1 20.5 160.3 0072 5 8 2.2 82.8 85.4 85.0 101.9 103.3 100.6 84.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0	90.3 82.6 84.6 65.3 93.5 77.4 72.1 164.5 90.7 77.3 77.9 77.9 77.9 77.9 77.9 77.9 77
2 92.6 95.4 96.0 101.9 103.3 100.6 94.7 179.2 101.2 103.0 173.3 102.6 103.0 173.3 103.6 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.3 103.5 103.3 103.5 103.3 103.5 103.3 103.5 103.3 103.5 103.3 103.5 103.5 103.5 103.3 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 103.5 10	2 73.0 78.3 96.3 95.3 95.1 94.2 95.3 77.8 77.8 77.8 77.8 77.8 77.8 77.8 77	78.3 96.5 95.1 94.2 95.3 76.3 76.3 194.1 76.3 76.3 194.1 76.3 76.3 76.3 194.1 76.3 196.2 9 76.3 76.3 196.2 9 76.3 76.3 196.2 9 76.3 76.3 196.2 9 76.3 76.3 196.2 9 76.3 76.3 196.2 9 76.3 76.3 196.3 196.2 9 76.3 76.4 196.2 9 76.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3
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2 92.6 95.4 96.0 101.9 103.3 100.6 94.7 179.2 57.1 75.4 74.2 67.4 56.1 162.0 77.3 75.6 77.1 76.4 74.2 67.4 56.1 162.0 77.3 72.3 74.3 77.1 69.5 61.1 50.5 161.0 77.3 61.2 61.3 59.1 56.2 59.1 20.5 160.3 77.7 33.4 35.0 26.0 15.5 38.4 20.6 155.6 55.5 57.7 33.4 35.0 26.0 15.5 20.6 155.9 155.9 2 20.9 9.0 101.9 103.3 100.6 94.7 179.2 59.2 101.3 103.3 105.6 105.7 101.6 95.0 55.0 55.0 55.0 57.7 101.3 103.8 105.6 105.7 101.6 95.0	3 78.8 75.3 76.6 77.1 76.4 74.2 67.4 56.1 162.0 PS 9 75.3 72.3 77.1 76.4 74.2 67.4 56.1 162.0 PS 9 75.3 72.3 77.1 76.4 59.5 161.0 PS 9 70.2 68.7 68.5 68.9 68.7 64.1 52.4 38.2 160.3 PS 9 70.2 68.7 68.5 68.9 68.7 64.1 52.4 38.2 160.3 PS 9 7.5 31.4 25.6 15.5 PS 9 7.5 31.4 35.0 26.0 15.5 PS 9 7.7 33.4 35.0 26.0 15.5 PS 9 7.7 7 33.4 35.0 26.0 15.5 PS 9 7 179.2 PS 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	75.3 76.6 77.1 76.4 74.2 67.4 56.1 162.0 PC D 68.7 68.5 68.9 68.7 64.1 52.4 30.2 160.9 68.7 68.5 68.9 68.7 64.1 52.4 30.2 160.9 56.7 7 33.4 35.0 26.0 15.8 2 39.1 20.5 160.9 57.7 33.4 35.0 26.0 15.8 155.6 157.8 13.2 9.9 9.0 101.9 103.3 100.6 84.7 179.2 92.8 95.4 98.0 101.9 103.3 100.6 84.7 179.2 92.8 95.4 98.0 101.9 103.3 100.6 84.7 179.2 92.8 95.4 98.0 101.9 103.3 100.6 84.7 179.2 93.7 101.3 103.8 105.6 105.7 101.6 95.0 TAPE NO. N300 3ALPHA SB39 TAMB 39.92 AFRO: RDG. ADHI41 PAMB 29.5000 RELHUM 22.40 SIZE SIZE SIZE SIZE SIZE SIZE O . M/SEC (0. FPS)
2 68.7 (6.5 69.9 68.7 68.1 50.4 50.0 160.9 161.0 161.7 61.2 61.3 59.1 53.2 39.1 20.2 160.9 161.7 61.2 61.3 59.1 53.2 39.1 20.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0	# 70.2 68.7 68.5 69.9 68.7 64.1 52.4 36.2 160.9 7 66.3 61.7 61.2 61.3 59.1 53.2 39.1 20.5 160.9 7 66.3 61.7 61.2 61.3 59.1 53.2 39.1 20.5 160.9 7 66.3 61.7 61.2 61.3 59.1 53.2 39.1 20.5 160.9 7 61.9 52.6 49.5 51.1 45.5 38.4 20.8 158.6 6 15.9 13.2 9.9 9.0 26.0 15.5 38.4 20.8 158.9 6 16.9 13.2 9.9 9.0 101.9 103.3 100.6 94.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 7 AMETER RAII 9.056 FREQUENCY SHIFT -10 TAPE NG. N300	68.7 68.5 68.9 68.7 63.1 52.3 56.2 160.9 Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr
2 92.6 95.4 96.0 101.9 103.3 100.6 94.7 179.2 2 92.6 95.4 96.0 101.9 103.3 100.6 94.7 179.2 5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 FATIO 9.056 FREQUENCY SHIFT -10	7 66.3 61.7 61.2 61.3 59.1 53.2 39.1 20.5 160.3 54.5 54.5 54.5 51.1 45.5 38.4 20.8 158.6 56.1 59.9 50.0 15.5 38.4 20.8 158.6 56.1 59.9 50.0 15.5 38.4 20.8 158.9 57.7 37.7 39.2 9.9 9.0 10.1 50.0 15.5 10.5 50.9 50.9 50.0 10.1 50.0 15.5 10.5 50.0 56.0 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.1 50.0 10.0 1	82.6 95.4 96.0 101.9 103.3 100.6 94.7 179.2 99.2 101.3 103.3 105.6 105.7 101.6 95.0 ATIC 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 (ALPHA SB59 TAMB 39.92 TAPE NG. N300 (ALPHA SB59 TAMB 39.92 SL. 9032.2 SG CM (1400.00 SG IN) - FULL O. M/SEC (0. FPS)
2 92.6 95.4 95.0 101.9 103.3 100.6 94.7 179.2 5 99.7 101.3 103.6 105.7 101.6 95.0 5 99.7 101.3 103.6 105.7 101.6 95.0 5 99.7 101.3 103.6 105.7 101.6 95.0	4 54.9 52.6 49.5 51.1 45.5 38.4 20.6 156.6 55.3 57.5 37.7 33.4 35.0 26.0 15.5 157.8 157.8 158.9 13.2 3.9 9.0 101.9 103.3 100.6 94.7 179.2 5 100.5 99.7 101.3 103.3 105.6 105.7 101.6 95.0 AMETER RATIO 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 SALPHA SES9 TAMB 39.92 CH AERG. RDG. ADHIAI PAMB 29.5000 RELHUM 22.40	92.6 95.4 95.0 101.9 103.3 100.6 94.7 179.2 99.2 101.3 103.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.8 105.6 105.7 101.6 95.0 105.8 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 101.6 95.0 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 105.7 105.6 1
2 92.6 95.4 98.0 101.9 103.3 100.6 94.7 15 99.2 101.3 103.3 105.6 105.7 101.6 95.0 RATIO 9.056 FREQUENCY SHIFT -10	6 12.2 92.8 95.4 98.0 101.9 103.3 100.6 94.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.2 101.3 103.8 105.6 105.7 101.6 95.0 AMETER RATIO 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 1ALPHA SES9 TAMB 39.92 CH AERG: RDG. ADH141 PAMB 29.5000 RELHUM 22.40	13.2 9.9 9.0 20.0 10.0 10.0 10.0 10.0 10.0 10.0 10
2 92.6 95.4 98.0 101.9 103.3 100.6 94.7 179 5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 RATIO 9.056 FREQUENCY SHIFT -10	5 92.2 92.6 95.4 98.0 101.9 103.3 100.6 94.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 AMETER RATIO 9.056 FREQUENCY SHIFT -10 TAPE NO. N300 SALFHA SB59 TAMB 39.92 CH AERO: RDG. ADH141 PAMB 29.5000 RELHUM 22.40	92.8 95.4 98.0 101.9 103.3 100.6 94.7 179.2 99.2 101.3 103.8 105.7 101.6 95.0 99.7 101.3 103.8 105.6 105.7 101.6 95.0 ATIC 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 JALPHA SB59 TAMB 39.92 AERG. RDG. ADH141 PAMB 29.5000 RELHUM 22.40 SIZE SL 9032.2 SG CM (1450.00 SG IN) - FULL 0. M/SEC (0, FPS)
2 92.6 95.4 98.0 101.9 103.3 100.6 94.7 179 5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 RATIO 9.056 FREQUENCY SHIFT -10	5 92.2 92.8 95.4 98.0 101.9 103.3 100.6 94.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 AMETER RATIO 9.056 FREQUENCY SHIFT -10 TAMB 39.92 CH AERO. RDG. ADHIGI PAMB 29.5000 RELHUM 22.40	92.8 95.4 96.0 101.9 103.3 100.6 94.7 179.2 99.2 101.3 103.6 105.7 101.6 95.0 99.7 101.3 103.6 105.7 101.6 95.0 ATIO 9.056 FREQUENCY SHIFT -10 TAPE NO. N300 IALPHA SB59 TAMB 39.92 AERO. RDG. ADH141 PAMB 29.5000 RELHUM 22.40 SIZE SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 0. M/SEC (0. FPS)
2 92.6 95.4 98.0 101.9 103.3 100.6 94.7 179 5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 RATIO 9.056 FREQUENCY SHIFT -10	TAPE NG. N300 1ALPHA SB59 TAPE NG. RDG. ADH141 PAWB 29.5000 RELHUM 22.40	92.8 95.4 98.0 101.9 103.3 100.6 94.7 179.2 99.2 101.3 103.3 105.6 105.7 101.6 95.0 99.7 101.3 103.8 105.6 105.7 101.6 95.0 ATIC 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 JALPHA SB59 TAMB 39.92 AERC. RDG. ADH141 PAMB 29.5000 RELHUM 22.40 SIZE SL 9032.2 SG CM (1400.00 SG IN) - FULL 0. M/SEC (0. FPS)
2 92.8 95.4 98.0 101.9 103.3 100.6 94.7 179 5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 99.7 101.3 103.8 105.6 105.7 101.6 95.0 RATIC 9.056 FREQUENCY SHIFT -10	5 92.2 92.8 95.4 98.0 101.9 103.3 100.6 94.7 179.2 6 100.5 99.2 101.3 103.3 105.6 105.7 101.6 95.0 6 100.5 99.7 101.3 103.8 105.6 105.7 101.6 95.0 AMETER RATIO 9.056 FREQUENCY SHIFT -10 TAMB 39.92 CH AERO: RDG. ADH141 PAMB 29.5000 RELHUM 22.40	92.6 95.4 96.0 101.9 103.3 100.6 84.7 179.2 99.2 101.3 103.3 105.6 105.7 101.6 95.0 99.7 101.3 103.8 105.6 105.7 101.6 95.0 ATIC 9.056 FREQUENCY SHIFT -10 TAPE NG. N300 IALPHA SB59 TAMB 39.92 AERG. RDG. ADH141 PAMB 29.5000 RELHUM 22.40 SL 9032.2 SG CM (1430.00 SG IN) - FULL 0, M/SEC (0, FPS)
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SIZE 110.1 SQ CM (17.07 SQ IN) - MODEL	
110.1 SQ CM (
M (40,0 FT) ARC	
12.2 M (
TEST POINT 3016	
MODEL 6	

REFRACTION CORRECTION - YES TURBULANCE CORRECTION - YES

298.00 48.00

FREE JET VELGGITY (FT/SEC) FREE JET DIAMETER (IN)

MODEL/FULL SIZE SCALE FACTOR INPUT 1.000 CALC. 1.000

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TAMB

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03-16-78 C41 ANECH CH

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

IDENTIFICATION - FJ-400-FMGDL X30175

								(OR F	IG P	IN OC	AL R	FQ	PA(SE	. I:	Ŝ								T SPEED (389.0 FPS)	
ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60, 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.	67.0 68.9 69.6 68.4 74.9 71.3 70.6 71.2 77.7 85.0 87.2 82.5 73.6 160 58.2 69.8 71.3 70.3 86.1 72.5 72.0 73.6 79.6 85.9 88.4 82.0 74.7 161	71.3 71.2 72.5 72.8 73.5 75.1 74.9 76.6 82.3 86.7 87.5 79.6 75.1 1	72.3 72.1 74.7 73.1 75.2 76.5 76.3 77.8 82.9 87.1 86.9 79.3 75.3 161	72.4 72.5 74.2 74.7 74.9 76.3 77.1 79.3 83.7 87.9 85.3 78	71.3 73.4 74.7 74.6 76.5 78.3 78.9 80.9 84.4 86.1 84.9 77.3 73.8 161	71.1 72.6 74.4 75.3 76.0 78.2 78.8 81.1 84.1 86.3 83.1 75.4 71.1 161	71.0 72.2 74.4 75.2 76.4 78.4 79.4 81.4 83.7 85.2 81.7 74.9 71.3 161 71.4 72.9 74.5 75.4 76.9 79.2 78.2 80.8 83.8 84.1 81.3 74.6 71.1 161	72.6 74.6 75.4 75.7 77.1 78.5 78.3 80.0 82.8 84.0 80.6 75.8 71.4 162	73.1 76.4 76.3 75.9 78.4 79.6 77.9 80.2 82.2 82.9 79.6 76.6 71.1 162 73.4 77.1 78.8 78.1 79.9 79.0 77.0 79.3 82.1 82.7 78.8 78.0 69.9 163	71.9 75.9 76.8 77.6 80.1 80.5 77.9 79.3 80.6 79.9 75.4 71.0 65.8 163	68.7 73.7 76.5 77.4 80.0 79.8 76.4 77.4 77.0 74.2 69.4 65.5 60.8 162	64.4 72.3 74.1 73.7 77.7 77.1 73.1 71.1 76.7 73.1 68.6 61.3 34.0 163 60.3 66.2 69.7 70.4 72.0 71.6 70.2 69.9 71.3 67.6 61.0 81.1 41.0 163	50.2 55.5 62.2 65.8 68.9 68.0 63.4 62.8 62.9 56.8 48.8 38.2 22.2 162	37.9 45.6 52.4 55.8 56.1 56.9 54.1 50.5 52.1 42.5 33.1 19.2 161	13.4 24.6 33.2 36.8 38.5 33.7 38.2 33.4 37.9 26.2 13 3 0 10 1 15 6 17 3 14.7 10 8 8 9	4:0 0:0: 11:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0				7 91.4 95.1 2 99.2 101.9	7 \$6.2 98.1 98.4 101.2 100.2 \$8.2 99.2 102.8 104.1 100.1 \$3.4 88	DIAMETER RATIO 9.056 FREQUENCY SHIFT -10	TEST DATE 03-16-78 TAPE NO. N300 IALPHA SB59 TAMB 40.28 Location C41 Anech Ch Aero. RDG. Adh148 Pamb 29.5≗50 Relhum 21.80	TEST POINT ACOUSTIC RANGE SIZE SIZE SIZE SOLT 118.57 M/SEC (
	C 8 0 1	900	100	125	500	315	004	200	900	1000	1600	2000	3150	4000	2000	6300	10000	12500		63000	0	PNLT			MODEL	

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07/19/79																									. 92 . 40	FREE-JET M/SEC (-
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	R. R.	IODEL. Jackground	SUKED F	10.				•	92.9	94.0	- -	99.7	Ø 1	02.1			03.9		2.68	94.6	90.6	83.0	69.6	3.7	NG. I	110.	
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								ORI(OF	BII.	VAL NOR	- 1	PAC QU/	BE ALI	S											SPEED 0, FPS)
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40.0 FT. ARC	0		150. 160.			16.0 109.4	13.0 110.0	14.2 111.6	6 113	15.7 113.6 15.8 112.7	6 112	. 4 108	4	7 104	. e.	101 6	8 98	 	89.1 87.7 84.2 84.1	.9 78.	o o	125.3 122.6	REFRACTION TURBULANCE	SB59 29.5000 RE	IN) - MODEL
88	IGDL X30180	ET, DEGREËS	130. 140.			11.9 107.0 1	08.55 111.4	0.0	18	1.3 115.9 1	0.7 114.9 1		10.2 113.6 1	111.3	. 4 	107.3	102.8	οi ο	.4 90.9 .9 86.1	80.4	0 69.4	122.1 125.6 1	EC) 0. IN) 48.00	I ALPHA PAMB	\$12E (17.07 SQ
R. H.	- FJ-ZER-FMGDL	SURED FROM INLET,	110. 120. 1			2.9 95.3 10	20.00	. — -	_		יודי		103.5 106.5 11 103.4 106.2 10	105.8	104.3	102.8	98.5	96.4 93.4	90.5 85.7	80.4	69.8	13.7 117.0 12	VELOCITY (F†7SEC) Jet Diameter (IN)	3. N300 3. ADH140	110.1 SQ CM
70 PERCENT	DENTIFICATION	ANGLES MEASU	. 100.			=	D (5	93.7	96.6	97.9	99.7	20 .00 20 .00	- 4	9.06	9 09 9 09 9 00 4 10	97.8 9E.3	95.1	92.6 90	86.6 82.2	77.4	64.1	.9 110.7 11:	FREE JET VEI FREE JE'	TAPE NG. AERO. RDG.	T) ARC
O DEG. F.,	IDE	Į.	90. 90			96.7	99.0	4.20	93.1	94.4 97.0	95.7	90.00 00.00	5 95.8 98.	95.8	95.3 97	95.5	95.7	95.1 92.7	87.4	77.7	62.9	108.8 109	: FACTOR 1.000	03-16-78 C41 ANECH CH	ACGUSTIC RANGE 2 M (40.0 F
59.			60. 70.			. 0 06.	5 67.	69	4 92.	. 8 95. 7 96.	6 93.	4 . 9 . 50.	95.3 95.5	8 94.	6 94.	1 95.	9 94	8 g	7 86.	3 75	. 8 64.	106.8 106.7	ZE SCALE CALC.	TEST DATE 03-1 LOCATION C41	5.
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31			PWL		.2 169.3	-1-	_		Т				-		Г		•	156.2	156.1				.1 179.7	o		TAMB 39.92 RELHUM 22.40	FULL 0. P	
38 2400.0 FT. SL	X30185	EES 160	7 00	92.8 86	93.0 87	92.9 86	92.5 85	90.6	86.9 78	84.9 76	83.1 74 81.4 73	79.1 71	77.9 68	72.2 62	58.1 56	62.1 49	30.00	22	o				101.5 95	102.5 94	SHIFT -10	IA 5359 IB 29.5000	- (NI 08	
	FJ-ZER-FMODL X3	FROM INLET, DEGREE 120, 130, 140.	0		92.9	92.3	91.6		90.3	88.8	85.4 87.6	85.5	64,2	80.08 0.08	76.2	4.17	50.0	1	0.0				3 102.3 104.3 3 105.6 106.4	105.6	FREQUENCY S	IALPHA 40 PAMB	\$12E CH (1400,00	
ENT R.H. STD. DAY,	1 Z	URED	- 1	60.7	0 82.7 86.4	84.6 87	84.9 88	84.8 88	85.6 87	85,2 87	84.8 83.7	63.1 64	82.3 83	79.5 78	76.4 76	72.3 73	61.4 61	49.5	- O				95.7 £6.3 101.5 103.3	101.5	9.026	PE NJ. N300 . RDG. ADH140	9032.2 80	
0 DEG. F., 70 PERCEN	IDENTIFICATIO	ANGLES MEAS	25.0	77.7 78.	78.5 80.	82.8 82.	81.4 82.	80.3 81.	61.2 62.	80.3 81.	79.9 61.	79.6 80,	80.1 79.	79.0 78.	78.6 75.	75.8 72.	66.3 62.	54.2 52.	15.1 13.				92.5 93.1	6 99	AMETER RATIO	TAPE CH AERO. F	IIC RANGE 2400.0 FT) SL	
59.0 DEG.		70 90		93.	75.2 76.5	80.	.6 78.	.8 78.	6 78	.0 77.	.6 77.	.5 77	.4 77.	5 77.	.3 77.	.75.	. 6 68. . 65.	.7 52.	. 6 . 2 . 2 . 2				96.1 99.1	.1 99.	DIA	03-16-76 C41 ANECH	ACGU31	
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X30190 X01300		160.			7 106	9	9	7	ო .	9 7	6. 69 94. 6	1 94	.5	7.29 93.7 83.7	6 92	_	- 4	2 92.	.4	5.0 90.2 2 8 6 7	8 86	4	.9 77.	1 66	1.1 58.6	1.4 112.1	9	29.5450	
	DEGREES	140, 150			03.6 106	4		7	_	4 (4	6		2	07.1.100.	05.8 100	9	9	99.8 96	a	o.	4.0	71 2 6	۲.	121.9 118.	I	PAMB 29	SIZE
FJ-300-FMGDL FJB300-FMGDL	INLET, D	130.	•		98.6	0	. 8	4		108.5	108. 108. 108.	2	6		- 6	_	œ κ 		4	101 8 8	عاد	_		2		119.5			is .
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,	MEASURED	00. 110				n	673	۲.	ო.	- (N O	10	-1	ກຸດ) V	9	99.00		-	1.1 96.7 1.8 63.7	9	a	n c	2	a	.4 110.9	YAPE NG	. RDG.	
•	ANGLES	90. 10			0.9	6.7	7.2	20	o .	4 F	22.0 24.4 855	က	۲.	O) %		Q.	94.40	-	9	94.7 93	• 1 •	GI.	4.0	-1	4	06.4 107		AERO	RANGE ABO
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	11	. 60			10	32.	83.	83.	9	÷ 6	9 60	89,	.00	တ် ဇ	98	69	6.00.00 0.00.00	93.		4. 10 4. 46 7. 48	87	94		99	•	6 102.7	ST DATE	LOCATION	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. D.Y, SB 2400.0 FT. SL

											0	RI	GI P	OC N) R	. F	PA 2U	G	E	is TY	7			,						•			SPEED 301.0 FPS)	
																	•															40.2 4 22,30	FREE-JET 91.74 M/SEC (
		돌	162.7	163.6	163.4	163.2	162.9	162.6	162.3	162.7	162.8	163.3	162.9	163.2	163.	- 62	162.7	162.6	161.2	159.8	106.6							176.3				TAMB RELHUM	_	
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ıp.		150.									78.0																Ì	93.6 95.5		710		SB59 29.5456	<u>S</u>	
X30195	DEGREES	140,	89.8	90.0	90.2	89.7	96	86.6	85.9	85.3	84.4 83.4	82.3	80.2	78.8	70.2	4.00	62.8	51.6	36.2	18.0								90.30 02.0	02.0	Y SHIFT		ALPHA	\$12E 400.00 SQ	
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FJ-300-FMGDL	FROM INLET	ė	1	א פ	4	4 (vi c	٠ ر د	9	a,	0 0	-	ď	4.6	وأد	د	9	N	Q	د								102.5	N	F.		N300 ADH150	SQ CM	
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			UNTRAP	SFORM 59.0	UNTRANSFORMED MODEL 59.0 DEG. F.		SOUND PRESSURE 70 PERCENT R.I	SURE L	EVELS STD.	CORRECTED DAY, SB		40.0 FT. ARC	ARC	36 10 10 10 10 10 10 10 10 10 10 10 10 10				1
					I DENT	DENTIFICATION	ON - R	IODEL ACKGROUND	- 1	FJ-400-FMGDL FJB400-FMGDL		X30200 X01400						i
						ANGLES	ES MEAS	URED		INLET, DE	DEGREES							
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FLEGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS AS O DEG E 70 DEBCENT B H STD DAY SR 40.0 FT ARC	IDENTIFICATION - FJ-400-FMGDL X71120	ANGLES MEASURED FROM INLET, DEGREES	50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		91.7 91.6 90.8 91.0 91.6 92.6 99.3 104.7 108.6 112.0 111.7 145	.3 91.7 91.6 91.7 92.6 91.9 93.7 102.2 109.6 112.9 114.7 112.5 146 .5 92.9 91.4 92.2 93.4 93.3 94.7 103.7 112.4 115.9 116.5 112.9 150	.9 94.3 92.1 93.7 95.1 94.0 95.9 165.3 112.6 117.0 117.0 112.2 151.2 .9 95.6 94.1 97.9 96.0 95.6 98.1 108.1 114.4 118.3 117.0 113.1 152.2	.0 96.5 95.0 95.9 97.1 96.9 99.9 109.6 114.4 116.9 116.0 113.4 152.4	2 99.1 57.6 99.1 100.4 99.6 102.5 112.0 114.9 120.2 115.0 113.3 153.3 153.3 151.0 100.9 103.6 112.8 115.0 115.8 115.1 113.7 153.6	7 104.4 100.9 101.5 101.3 101.0 104.2 113.3 117.9 119.1 114.3 113.3 154.1	107.0 105.3 105.3 107.0 106.0 116.9 116.7 116.7 110.2 110.4 153.5 C. 107.0 106.6 105.3 105.9 107.8 115.0 115.7 110.2 110.4 153.4 C.	.4 106.7 105.0 105.2 106.9 106.3 109.1 114.9 115.5 114.0 109.2 109.8 152.9	.2 107.2 106.0 107.1 107.6 106.1 108.1 113.4 314.3 111.6 107.3 107.6 152.5 .6 106.9 106.0 107.2 108.3 105.3 107.9 111.2 112.3 109.7 105.6 106.8 152.0	.3 106.4 106.0 106.8 107.4 104.7 106.7 110.5 111.9 108.9 106.4 108.6 152.6 105.6 105.0 107.7 104.8 106.1 108.6 108.9 106.6 104.9 107.6 152.6 108.6 108.6 104.9 107.6 152.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108.6 108	.4 101.8 101.6 103.8 103.7 100.0 100.0 102.9 104.0 100.7 98.0 101.5 151	.5 97.8 95.7 95.9 100.0 99.9 97.7 9 .3 95.8 91.0 91.4 95.6 93.2 91.3 8 .1 87.8 85.8 84.0 91.4 87.6 85.4 8	. 0 71.8 72.7 72.7 73.7 72.2 70.8 75.7 73.1 71.2 65.0 68.6 146	-	SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 397.00 REFRACTION CO 100 CALC. 1.000 FREE JET DIAMETER (IN) 40.00 TURBULANCE CO	TEST DATE 02-27-78 TAPE NO. N299 IALPHA SB59 TAMB 30.20 Location C41 anech ch aero. RDG. Adh989 Pamb 29.5700 Relhum 44.80	TEST POINT ACCUSTIC RANGE 7112 12.2 M (40.0 FT) ARC 154.7 30 CM (23.99 SQ IN) - MODEL 117.96 M/SEC (387.0 FPS)	
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N299 IALPHA SB59 TAMB 30 C41 ANECH CH AERO. RDG. ADH989 PAMB 29.5700 RELHUM 44	TEST POINT ACCUSTIC RANGE SIZE SIZE FULL 117.96 M/SEC (7112 731.5 M (2403.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 117.96 M/SEC (

7.60	59.0 DEG. F., 70	ZO PERCENT R.H. STD.	TD. DAY. SB	40.0 FT.	ARC		
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						O	RIGIN/ F. POC	AL PAC R QUA	e is Lity			•	CORRECTION - YES	٥	
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS SA D DEA F 70 PERCENT R H STD DAY SR 40 0 FT ARC	IDENTIFICATION - FJ-ZER-FMODL X71130	ANGLES MEASURED FROM INLEY, DEGREES	40. 50. 60. 70, 80. 90. 100. 110. 120. 130. 140. 150. 160. 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N294 IALPHA SB55 TAPE	LOCATION C41 ANECH CH AERO, RDG. ADHO78 PAMB 29.2900 RELHUM INT ACCUSTIC RANGE	7100 7113 12.2 M (40.0 FT) ARC 164.7 SQ OM (23.99 SQ IN) - MODEL 0.

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X71141

IDENTIFICATION - FJ-400-FMODL

										OR	RIGI P	N.	AL OR	P. Qi	AG	E i	13 7									: !	T SPEED (0. FPS)	
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- MODEL BACKGRØUND	MEASURED F	. 110.				2 98.1 1	98.2 1	1000.0	103.0		3 106.8	1 106.7 1	4 107.1	7	_	106.9	105.5	102.3 1	99.0	91.4	55 .06 .05 .05 .00 .00 .00 .00 .00 .00 .00 .00	73.3	68.1	118.1	ñ 36.	RDG.	154.7	
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C7/19/79 18,682								ORMIN OF PO	IAL PA	GE 19 ALITY			B CORRECTION - YES		20.20 FREE-JET SPEED	M/SEC (0, FPS)
				P¥		4.04	154.2	156.0 156.2 156.0	154.7 153.9 152.7	150.9	148.9 147.8 146.9		166.8 TION CORF	ANCE CORP	RELHUM 20	نا 0
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UNTRANSFORMED MODEL SQUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - MODEL FJ-150-FMODL X72020 BACKGROUND FJB150-AMODL X01500	LWA .

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14 109.0 113.7 114.0 146.6 10. 140. 150. 160. PWL 14 109.0 113.7 114.0 146.6 10 111.9 115.2 114.6 146.4 1.2 115.5 117.7 115.4 1E1.0 1.3 119.4 119.3 115.9 153.7 1.3 122.3 120.2 11.9 153.1 1.3 122.3 120.2 11.9 153.1 1.3 122.3 120.2 11.9 153.6 1.9 119.9 114.2 104.7 155.3 1.9 119.9 114.2 104.7 155.3 1.9 119.9 114.2 104.7 155.3 1.9 119.9 114.2 104.7 155.3 1.9 119.9 114.2 104.7 150.7 1.9 119.9 114.2 104.7 150.7 1.9 119.9 114.2 104.7 150.7 1.9 119.9 114.2 104.7 150.7 1.9 119.9 110.7 150.7 1.9 119.9 110.7 150.7 1.9 114.4 108.1 101.7 150.7 1.9 114.9 105.2 100.2 149.7 1.9 114.9 105.2 100.2 149.7 1.9 114.9 103.1 98.0 148.7 1.9 114.9 103.1 98.0 148.7 1.9 104.7 101.0 97.4 148.5 1.9 90.5 92.9 92.8 148.0 1.9 90.5 92.9 124.3 163.7 1.6 130.6 126.9 124.3 163.7 1.6 130.6 126.9 124.3 163.7 1.7 101.0 97.4 148.5 1.8 90.5 90.0 REFRACTION CORRECTION As.00 TURBULANCE CORRECTION As.00 TURBULANCE CORRECTION As.00 TURBULANCE CORRECTION As.00 PAMP 29.5900 RELHUM 59.70 1.9 12.5 12.5 10.1 - MODEL 45.11 M/SEC-1			•							OF	RIG F	ilN,	AL OR		AG JAI	E	S Y							- YES - YES	A pet transcent		ET SPEED (148,0 FPS)
99. 0 DEG. F., 70 PERCENT R.H. STO. DAY, 54 40.0 FT. AND IDENTIFICATION - FJ-150-FMOL X72020 ANOLES HEASURED FROM INLET, DEGREES ANOLES HEASURED FROM INLET, DEGREES ANOLES HEASURED FROM INLET, DEGREES ANOLES HEASURED FROM INLET, DEGREES 80. 70. 80. 70. 100. 110. 120. 130. 140. 180. 160. 160. 160. 180. 180. 180. 180. 180. 180. 180. 18				PVL		146.6	148.4	152.0	154.8	155.3 255.6	155.0	154.0	152.5	150.7	150.0	149.6	146.7	140.6	148.0	146.5	146.3	• •	165.7	CORRECTION			45.11
89.0 DEG. F., 70 PERCENT R.H. STD. DAY, 54 1 DENTIFICATION - FJ-150-FMODL ANALES MEASURED FROM INLET, DE 80. 70. 80. 90. 100. 110. 120. 130. 1 80.8 91.2 92.4 94.0 95.9 96.0 100. 110. 120. 130. 1 80.8 91.2 92.4 94.0 95.9 96.0 100.4 106.0 1 80.9 91.2 92.4 94.0 95.9 96.0 100.4 106.0 1 80.9 91.2 92.4 94.0 95.9 96.0 100.4 106.0 1 80.9 91.2 92.4 94.0 95.9 96.0 100.4 106.0 1 80.9 91.2 92.4 94.0 95.9 96.0 100.4 106.0 1 80.9 10.1 92.9 10.1 102.9 10.4 110.0 116.9 112.2 1 80.0 105.1 100.1 102.9 100.1 102.9 100.0 116.9 12.0 1 80.0 105.1 100.1 102.9 101.1 102.6 102.7 103.4 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114.6 114	40.0 FT. ARC	72020	REES	150. 1		0 113.7 114.0	5 115.2 114.0	2 116.9 116	0 120.0 115	5 120.0 113	0 118.4 108	116.0 107	0 12.3	4 108.1	4 107.2	2 106.3 1	104.3	7 101.0 97	2 97.9 92	5 92.3 97.3	9.10	6 67.4	126.9		2	\$859 29.5900	- (N1 DS
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59.0 DEG. F. 50. 70. 60. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1		NO	MEA	90.		94.2 95.7	93.9 96.0	96.0 97.7 1	98.6 101.5	100.4 103.1	102.7 105.0 1	102.0 104.9 1	163.3 105.4 1	105.1 106.2 1	103.9 106.1	102.6 105.7 1	101.0 103.9 1	100.4	95.6	0.0	83.8 81	70.0 70.	114.6 116.8	121		RDG.	ARC 164.
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	. O DEG. F.	IDENT	ANG			.7 90.6 92.	2 82.4 94.	3 93.1	2 96.4 98.	2 98.6 99.	9 101.1 102.	.3 99.0 100.	0 105.1 104.	6 102 9 104.	4 101.4 103.	.4 101.8 103. 8 102.3 103.	.9 101.3 102.	.6 101.4 102. 5 100.8 101.	5 99.6 98.	.3 94.5 94.	- 64.0 85.	76.4 77.	9 114.0 114	FACTOR	000	27-78 ANECH	COUSTIC RANGE M (40.0 FT
그 그 그는 그는 그는 그는 그는 그는 그를 그 살으면 그를 보고 있으면 그를 보고 그를 보고 그를 보고 있다. 그를 보고 그를 보고 있는 그를 보고 있다.	30			9		9 90.5	90.8	93.0	6 96.1 96	7 100.6 99	3 100.1 99	0 105.1 101	2 104.9 105	4 101 3 101	7 101.9 101	101.2 101.4	1 99.7	6 99.7	3 95.6	0 92.6	9.09 90.09	3 69 2 7	0 114 4 113	SIZE SCALE	بن	22	INT 12

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2	166.6	170.	171.4	172.	173	172.6	171.	170.	170.2	168.	168.4	167	10/	166.3	166.7	166.3	165.7	166.2	185.8	163.9	.62. B	164.								9	0			TAMB	RELIECT			
160.	63.		88.0	8.8	83.7	79.1	77.7		72.0			•	63.7	200		50.1	37.2	19.0												1	9 6	94.0			8		- FULL	
180.	93.7	0.70	8 8 8 6 8 7 8 7 8	929	9	10 10 10 10 10	90.7	88.3	85.8	69.7	80.2	78.7	27.7	70.6	70.1	65.1	67.0		23.5											6	04.6	9.0	a -	SBS9	29.5900	1	2	
140.	93.7	96.4	97.5	- 6	100.1	90.3	φ	-	e .	(O)	-	N •	4 0	0 00	4	a	0	-	44.1	20.9													ICY SHIFT	 ALPHA	PAMB	•	(1400,00 \$0	6.
130.		9	•	27.5		96.0	93.6	95.4	93.0	92.5	92.3	9 ·	90	9 - 6	63.8	79.3	72.7	67.7	55.0	34.8	ი ი										110.6		FREQUENCY	-				Ì
120.	52.7	. 7	87.3	6.00	89.6	90.3	90.4	89.3	90.0		88.0		0.76	9 6	.! .	79.3				39.9										_		106.9		N299	ADH131		2 SQ CM	
<u>.</u>	٠,	79.2	81.3	84.4	95	86.1	65.7	82.8	85.7	92.6	82.0	92	7 Q	 	81.0	78.2	72.3	66.6	56.2	•											8 2 5 6	04.2	7.640	2			9032.	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPCLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X72021

IDENTIFICATION - FJ-150-FMODL

										0	RIF	GI P	00 N/N	VL)R	PQ	AG U <i>P</i>	出し	is T	i f										
																													60,00
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	X72630 X01300		150. 160		•		•	14.2 113	16.6 113	17.3 113	17.5 109	•	16.1 106	. 80	_	0.6	9	٦,	03.3 86	95	01.1		•	•		70.8 67		9	29.5900
	-FMODL -FMODL	DEGREES	140					110.01	11.0	15.2	116.61	120.1	120.7	122.5		10.0	0	0	- 0	-	106.6 10	9 0	7.8	4.40	٠.	76.0	130.4	A10 14	PAMB
	FJ-300-FMGDL D FJB300-FMGDL	M INLET,	0. 130.					1 108.4	107	0 212	12	1117	7 117.8		117.	7 117.3 5 115.4	Ξ	7		110.	4 108.6	9	66 9	6		79.1	-		130
	MODEL BACKGROUND	SURED FROM	110. 120					95.4 96	8	95.5 101 97.1 103	7	-	32.8 108.7 34 4 108.2	-1-	_	05.0 109.7	7	5.9 109.2		107	3.0 105.4		88	 		72.8 80 66.6 72	. 6	ļ	RDG. ADH130
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							ori Of	G P	NA OO	IL I	PAQU	GE IAI	: I: _IT	5 Y												- YES - YES		ET SPEED (326.0 FPS)
																										CORRECTION CORRECTION	32,00 60.00	FREE-JE1
ARC								144.0	150.4	5 151.7	153.7	153.9	153.3	0 152.7	4 181.4			6 149.7 2 149.0	149.0	3 148.7 9 148.8	9 148.3	147.4	7 146.0	8 142.8	9 164.8	REFRACTION C TURBULANCE C	TAMB RELHUM	
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SB 40.0	X72030	DEGREES	140, 150					07.7 111	16.6 117	17.3 117	19.9	-	19.9 115	D (16.6 112	9-	- 4	10 c	0	6 4 	4	86.9 85	83.1 80	69.1 62	129.5 127	326.00 48.00	IALPHA SB PAMB 29	S1 ZE 23.99 SG 1
DAY,	-FMODL	INLET, D	130.					104.1			19	115,5	116.2	116.4 1	114.6	114.6	112.7	120.01	109.6 1	107.1	6	9.7.0	85.7	70.8	126.7			CM (23
R.H. STD.	FJ-300-FMGDL	HEASURED FROM I	. 120.					- 1	_	0 104.1	7		9 0	Γ.	6 109.0			4 109.2	Γ.		65		6 87.1	1	8 120.7	JCITY (FT/SEC) DIAMETER (IN)	N299 ADH130	7 80
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., 70 PER	DENT!F!C/	ANGLES	90. 100								, r	4.	4 4	0	- n	0		4 a	9	- - •	-		84.6 82. 76.1 77.	0	15.4 114	FREE JE FRE	TA	NGE O FT) AR
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INLET,	130.	910	93.6	95.3	96.1	95.1	95.1	4.00	200	92.0	92.4	91.5	89.7	86. /	855.1	82.2	77.6	73.1	64.0	30.7	0.8								n	110.1	FREQUENCY	•	
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			2	:		146.5	47.6 7.0 8.0	20.3	51.5	62.3	3 6	53.5	53.0	152.4	50.4	120.1	49.7		146.7	45.5	4.	43. N	141.6	41.4	163.9	TAMB	1	
X72040 X01400		160.				. •	8.5	07.6	05.4	03.7	000	03.0	02.4	9.00	98.5	97.2	0.00	94.2	80.00	90.7	88.7	79.1	72.8	56.9	118.5		MODE	
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IGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	CATION - FJ-400-FMODL	ANGLES MEASURED FROM INLET, DEGREES	. 90. 100. 110. 120. 130. 140. 150. 160. PWL		8 89.7 80.3 91.1 98.0 1	5 91.6 90.2 91.7 100.5 109.0 7 92.1 92.0 93.2 102.3 110.7 6 93.0 93.2 94.8 104.8 112.7 9 94.7 94.8 96.9 106.7 114.4	9 96.1 96.4 98.8 106.9 115.2 118.4 114.6 112.1 151.9 8 97.6 97.6 100.0 109.6 114.9 120.0 114.7 111.6 152.8 2 100.1 98.6 101.4 110.2 115.6 120.1 114.1 112.9 153.0 5 100.7 100.4 102.8 110.8 116.1 118.9 112.8 112.3 152.6	5 99.6 99.8 103.2 110.8 116.5 117.7 113.2 112.3 152.6 0 101.5 101.6 103.7 112.1 115.6 117.0 112.5 111.6 152.5 0 106.2 102.7 104.7 112.0 115.0 116.0 110.4 109.1 151.8 3 105.4 104.1 105.3 112.2 115.0 113.9 108.7 107.4 151.4	3 104.2 105.3 105.8 111.7 113.5 111.6 107.2 106.8 150.3 1 104.4 103.9 105.9 111.4 112.4 110.9 106.0 105.9 149.6 4 103.5 103.3 105.3 110.1 111.4 109.3 105.2 104.8 149.3 5 103.8 102.2 104.8 107.9 109.5 107.0 103.4 104.6 148.6	2 102.4 100.8 102.8 106.7 108.8 105.8 102.9 104.8 148.5 2 102.4 100.1 101.6 104.5 106.4 103.8 102.1 105.1 148.3 9 101.2 98.0 99.2 103.7 103.4 101.2 100.4 104.1 148.7 8 98.6 95.6 95.4 99.0 100.6 98.0 95.5 99.3 148.2	2 94.0 91.9 91.5 95.9 96.3 95.0 91.9 96.5 0 91.9 96.5 0 91.9 95.2 0 91.9 95.5 0 91.9 95.5 0 91.9 95.5 0 91.9 95.2 0 91.9 95.3 0 91.9 95.3 0 91.9 75.9 75.9 76.3 73.3 80.9 79.8 77.0 71.9 76.0 70.1 68.2 66.5 71.1 70.0 67.2 62.1 66.2	FREE JET VELOCITY (FT/SEC) 387.00 REFRACTION CORRECTION - YES FREE JET DIAMETER (IN) 46.00 TURBULANCE CORRECTION - YES	TAPE NG. N299 IALPHA SB59 TAMB 29.30 Ch aerg. RDG. adh991 Pamb 29.5700 Relhum 44.80	RANGE SIZE SIZE FARGE 117.96 M/SEC (307.0 FPS)	
59.0 DEG. F., 70 PER	DENTIFI		. 70. 80. 90.		.2 68.9 69.7 90.	90.2 90.6 91.6 90. 90.2 90.7 92.1 92.9 90.7 92.4 93.0 93.0	93.6 94.9 96.1 96. 95.5 96.8 97.8 97. 97.8 99.2 100.1 98.	99.6 99.5 99.6 99. 103.2 105.0 101.5 101. 106.3 105.6 106.2 102. 105.4 103.4 105.4 104.	102.8 103.3 104.2 105. 102.2 102.1 104.4 103. 101.4 102.4 103.5 103. 101.7 102.6 103.8 102.	101.2 101.9 103.1 100. 100.0 102.2 102.4 100. 99.5 101.9 101.2 98. 97.5 99.8 98.6 95.	94.3 94.2 94.0 91. 90.4 93.0 91.9 87. 86.2 84.5 84.2 82. 78.6 75.3 75.9 76. 70.1 68.4 70.1 68.	FREE	02-27-78 C41 ANECH CH AE	ACGUSTIC RANGE 12.2 M (40.0 FT) ARC	
			40. 50. 60 FREG	50 63 60 100	3 91.7	90.3 91.7 90. 92.7 92.0 91. 93.2 92.6 92.	98.3 95.3 95.0 98.0 96.4 98.1 98.1 98.	108.6 105.1 101. 107.8 107.7 106. 105.6 105.9 106. 104.6 104.8 104.	102.7 102.8 103. 103.0 102.2 102. 102.7 102.7 102.	101.5 102.2 102. 99.0 100.3 100. 98.2 99.6 100. 95.3 98.8 99.	94.1 94.1 95 88.4 88.1 90 85.7 84.4 86 77.8 77.0 78 67.8 67.1 68	MODEL/FULL SIZE		MODEL TEST POINT 7200 7204) 3

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CATION - FJ-400-FMODL X72041	S MEASURED FROM INLET, DEGREES	120, 130, 140, 150,	.0 74.7 83.1 90.5 92.4 90.9 83.0 1 .1 76.3 85.6 92.4 94.0 90.6 82.6 1 .7 78.4 67.4 94.1 95.6 91.0 83.3 1 .2 80.2 89.6 94.8 96.5 90.4 84.4 1	79.3 81.3 90.1 94.4 98.0 90.4 83.8 170.4 80.2 82.7 90.7 94.9 97.8 89.5 84.6 170.7 81.9 83.9 91.1 95.3 96.4 87.9 83.6 170.3 81.1 84.0 80.9 95.4 94.9 87.9 82.9 170.2	.8 84.3 91.9 94.1 93.8 86.6 81.4 170.2 .6 84.9 91.5 93.1 91.3 83.9 77.9 169.5 .6 85.3 91.3 92.8 89.7 81.5 75.3 169.0 .6 85.5 90.4 90.8 87.1 79.3 73.6 167.9	.6 85.3 89.9 89.4 85.7 77.4 71.6 167.5 .1 84.5 88.3 88.1 83.7 76.0 69.3 166.9 .8 83.9 85.9 85.8 80.8 73.4 67.6 166.2 .2 81.5 84.3 84.6 78.8 71.5 65.6 166.2	.3 80.0 81.7 81.5 76.8 89.1 62.8 166.0 .7 77.0 80.0 77.4 71.4 64.6 56.9 166.3 .9 71.7 73.4 72.1 64.8 64.7 43.7 165.9 .2 64.4 66.5 63.0 55.6 42.2 26.4 165.2	.6 54.6 56.1 48.9 39.4 23.5 164.9 .3 37.2 40.1 28.9 16.5 163.9 16.9 16.9 16.9 16.9		94.1 95.5 101.7 105.0 105.6 99.5 93.3 101.7 101.6 102.7 107.5 109.3 106.2 100.9 95.0 101.6 102.7 106.2 109.3 106.2 100.9 95.0 ATIC 7.640 FREQUENCY SHIFT -9	TAPE NG. N299 IALPHA 3859 TAMB 29.30 AERG. RDG. ADH991 PAMB 29.5700 RELHUM 44.80 SIZE SLZE SLZE SLZE SLZE SLZE SLZE SLZE SL	
ı Z	MEASURED	. 110.	74.7	9 83.9 84.0	6 8 8 8 4 8 8 8 6 6 6 8	6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	2 77.0 2 71.7 2 64.4	3 37.2 10.9		.1 95.5 101 .6 102.7 107 .6 102.7 106	E NG. RDG.	
IDENTIFICATIO	ANGLES	ċ	6 74.2 4 76.1 6 76.0	76.6 79.8 78.0 80.0 81.9 8	3 87.1 8 86.0 5 84.5	0 84.6 3 83.6 3 82.7	5 69.1 5 69.1 5 68.7	.3 61.6 .7 44.2 .3 18.2		94.5 95.2 94 103.6 103.8 101 104.9 105.0 101 DIAMETER RATI	H CH C RANGE 100.0 FT)	
		.	7 72.1 71. 3 73.1 72. 6 75.3 74. 2 76.2 75.	0 76.4 76.9 4 79.2 79.0 1 82.0 80.2 0 81.9 80.7	3 86.6 83. 1 86.2 86. 5 83.9 85. 1 82.1 82.	2 80.6 81. 4 81.1 80. 4 80.3 80. 0 80.4 79.	5 77.4 78. 5 76.4 77. 3 73.6 73. 9 66.4 67.	3 55.1 58. 4 38.5 42. 9.1 16.		6 83.6 83.6 101.1 101.4 6 102.1	DATE 02-2 ATION C41 AC0 731.5 M	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 88 2400.0 FT. SL UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENI R.H. S.TD. DAY, SB. 40.0 FI. ARC

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, IDENTIFICATIÓN - MODEL FJ-ZER-FMODL X72050 BACKGROUND	
ANGLES MEASURED FROM INLET, DEGREES	
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63.1 66.5 68.6 71.5 71.9 73.1 74.6 72.9 81.3 80.7 76.8 75.1 71.4 1	12.3
67.5 76.3 75.5 72.5 67.3 64.3 1	43.7
GASPL 109.8 111.7 112.0 112.1 113.3 114.7 115.7 118.3 124.7 129.6 130.6 128.6 125.1 1	166.1
TABE ME NOOA 141 DUA CDRO	1.6
LOCATION C41 ANECH CH AERO, RDG. ADHO79 PAMB 29.2940 RE	RELHUM 25.00
MODEL TEST-PGINT ACGUSTIC RANGE 7200 7205 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL	FREE-JET SPEED 0. M/SEC (0. FPS)
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	PRESSURE	X72050	DEGREES	140.			113.0	117.4	120.1	120.8				112.1		104.2 101.1	96.8	•	76.8	130.6	48	ALPHA	PAMB	S12E 23.99	- 22
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IDENTIFICATION - FJ-ZER-FMODL X72051

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ORIGINAL PAG OF POOR QUA	YES	FREE-JET SPEED 45.11 M/SEC (148.0 FPS)
59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 F. 10ENTIFICATION - FJ-150-FMOL X72060 10ENTIFICATION - FJ-150-FMOL X72060 ANGLES MEASURED FROM INLET, DEGREES ANGLES MEASURED FROM INLET, DEGREES 80.4 50.2 50.4 51.9 53.7 54.1 56.0 100.4 106.0 111.4 115.0 140.1 50.1 50.1 50.1 50.1 50.1 50.1 50.1 5	100.6 100.1 101.3 101.3 101.4 102.0 103.1 106.0 110.4 115.4 114.1 106.3 102.2 150.6 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2	MODEL TEST POINT ACOUSTIC RANGE 7200 7206 12.2 M (40.0 FT) ARC 164.7 SQ CM (23.99 SQ IN) - MODEL 45.1 9 9

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ENT R.H. MODEL BACKGROU		110.			84.6	96.0	97.3	20.00	0.0	104.0		105.3	0.00	105.4	104.6	102.0	94.7	92.0 87.2	1.08	73.3 67.8	116.0 120	PE NO. N299 RDG. ADH13	104.		
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	
NTIFICATION - FJ-300-FMODL X72070	
ANOLES MEASURED FROM INLET, DEGREES	
40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL	
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97.5 99.5 98.9 101.0 102.0 103.4 101.2 102.8 105.4 106.0 104.7 102.5 101.6 149	
95.6 98.5 99.6 100.3 102.0 102.0 98.9 99.9 103.8 104.7 102.5 100.93.1 97.3 87.4 97.2 100.2 100.1 97.0 96.1 100.9 103.5 99.3 95	
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GÄSPE 111.6 111.8 112.2 112.4 112.9 114.0 113.5 115.6 121.1 126.4 128.6 126.0 122.3 164.1	
MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 299.00 REFRACTION CORRECTION - YES INPUT 1.000 CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES	
TEST DATE 02-27-78 TAPE NO. N299 IALPHA 5859 TAMB 33.00 LOCATION C41 ANECH CH AERO: RDG. ADH133 PAMB 29.5900 RELHUM 56.60	
NODEL TEST POINT ACCUSTIC RANGE SIZE FREE-JET SPEED 7200 7207 12.2 H (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 91.14 M/SEC (299.0 FPS)	

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70.7 72.0 73.1 71.9 72.2 73.6 74.7 75.1 75.6 82.5 91.4 92.3 92.6 95.6 95.6 72.7 72.0 72.1 74.1 75.6 72.0 72.1 74.1 75.6 72.0 72.1 74.1 75.6 72.0 72.1 74.1 75.6 72.0 72.1 74.2 72.0 72.1 74.2 72.0 72.1 74.2 72.0 72.1 74.2 72.0 72.1 74.2 72.0 72.1 74.2 72.0 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 72.1 74.2 7	_
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76.7 77.4 79.1 79.2 79.2 90.2 90.2 90.2 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3	87.2 79.5
76.9 79.6 79.7 81.1 80.4 81.7 82.3 84.7 86.9 83.4 80.4 81.4 73.4 78.7 76.2 77.5 80.1 80.0 80.6 81.1 81.8 81.8 81.8 81.8 81.9 85.4 80.4 87.1 76.2 77.7 80.0 80.0 80.6 81.1 81.9 83.9 83.1 85.0 89.3 91.4 87.1 78.3 71.2 75.6 77.5 80.0 80.0 80.6 81.1 82.9 84.6 84.6 84.9 83.3 91.4 87.1 78.3 71.2 75.6 77.5 80.1 85.0 89.3 91.4 87.1 78.3 71.5 75.6 77.6 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81	62.6 75.1 1
76.2 77.7 60.0 80.6 81.1 83.9 83.1 85.0 89.3 81.4 87.1 78.3 71.7 75.0 80.0 80.6 81.1 83.9 83.1 85.0 89.3 81.4 87.1 78.3 71.7 75.6 72.1 72.5 81.4 81.6 84.0 83.6 84.6 88.1 80.1 85.0 77.6 65.8 75.0 65.2 75.0 75.1 72.4 72.9 81.2 82.6 83.2 84.2 82.6 83.2 76.0 65.1 85.0 77.6 65.8 77.7 75.0 77.7 74.3 72.4 72.4 72.4 72.9 72.4 72.9 72.1 78.7 72.4 72.4 72.4 72.4 72.5 72.7 72.4 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.4 72.5 72.7 72.4 72.5 72.7 72.4 72.5 72.7 72.4 72.5 72.7 72.5 72.7 72.4 72.5 72.7 72.7 72.4 72.5 72.7 72.7 72.4 72.5 72.7 72.7 72.4 72.5 72.7 72.7 72.4 72.5 72.7 72.7 72.4 72.5 72.7 72.5 72.7 72.7 72.7 72.7 72.4 72.5 72.7 72.7 72.7 72.7 72.7 72.7 72.7	80 1 73.4
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 58 2400.0 FT. SL

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R.H. STD. D	FJ-150-FMGDL	ROM -	120.	,			97.8	0 0 0 0 0	8.0	07.7	9 9 9 9	10.3	10.6	10.6	1 •		09.6		03.0	00 0 00 0 00 0		79.0	121.6	OLTY (FT	N299 ADH123	S	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 58 2400.0 FT. SL

X72101

IDENTIFICATION - FJ-150-FMODL

			OI OF	IGINA POOF	PAG QUAI	E IS			SPEED	(298.0 FPS)
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-400-FMODL X72120	ANGLES MEASURED FROM INLET, DEGREES), 60, 60, 70; 60, 80, 100, 110, 120, 130, 140, 150, 160, PM		91.6 90.5 90.3 89.3 89.5 89.8 91.3	91.6 90.6 90.3 90.2 91.3 90.4 91.4 98.7 107.9 111.3 113.1 110.4 146. 92.0 91.3 90.2 91.0 91.9 92.3 93.4 100.3 110.0 113.7 114.4 109.9 148.	92.8 92.5 91.0 93.5 93.0 93.2 94.6 102.1 110.8 114.9 113.7 108.6 148 93.4 94.5 92.6 101.4 94.7 94.0 96.7 104.4 112.1 116.4 113.6 109.4 149	97.3 97.1 94.9 95.0 95.6 96.1 98.3 106.4 112.5 116.4 112.7 109.9 1	44.4 40.5 40.8 40.8 40.7 40.5 47.0 48.7 100.0 112.1 117.1 14.0 108.5 196.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 108.5 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N299 IALPHA 3059 TAPE 37.00 LOCATION CAI ANECH CH AERO. RDG. ADHIZI PAND 29.3300 RELHUM 53.60	TEST POINT ACCUSTIC RANGE SIZE 12.2 H (40.0 FT) ARC 164.7 SQ CH (23.99 SQ IN) - MODEL 118.57 H/	
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 																									30.56 17.90	· FREE-JET O. M/SEC (
X73010		160.			0.7 145.9	10	2.1 148.9	1-	13.9 150.1	9 140.4	0	— ·	7.7.7.	-	103.5 144.5	142.9		95.5 140.3	4	-	63.0 138.2 76 4 136 4	ָם ד	1.4 136.4	2.8 160.5	TAMB	MODEL	
40.0 FT X73010	E3	150. 16			112.6 110	114.1 111	110.0 112	-	ó.	115.6 113	-	112.6 107	20.00] "	- •	103.3 100	-		- 1		52.7 63 78 9 76		64.7 64	125.7 122.8	3859 29.1940	SQ IN) - P	. :
DAY SA FJ-ZER-THOOL	ET, DEGREES	130. 140.			6.0 109.9	=;	10.9 113.6	1.6 115.4	10.9 114.6	10.2 114.7	-	110.0 112.9	~ ~	1-	107	, ra	5	5.4 95.7	19	,	3,3 84,3 8 7 7 8	6 72		121.3 124.8	I ALPHA PAMB	\$1.2E (23.99 :	
1 14	FROM INLET,	120. 1		8	101.2 106	102.5	503.6	106.7 1	107.1	108.0	107.9	107.7	106.0	106.3	105.3	103.0	100.2	9 6 0, 0	91.7	87.8	0 P	73.6	66.9	118.4	N294 ADH072	S	· · · · · · · · · · · · · · · · · · ·
- I	HEASURED FROM	100. 110.		8				l '_	N (19.3 102.3 19.7 102.7		100.2 102.1	v 6	0	4 0	: 4	5 97	و م	4	ú (73.5 79.7 73.5 70.0	q	œ	10.6 113.1	TAPE NG. AERG. RDB.	ARC 154.7	
' 2	AMBLES	8		8	97.6	92.2	8 6 8 6 8 6	95.7	97.1	98.5	97.2	98,0	97.0	97.1	97.2	96.5	85.3	92.7	5 9 7	54,55	92.4 4.8	66.7	62.2	109.3 1	SH AE	RANGE 40.0 FT) A	
59.0 DEA E		70. 60.			3	88.3 90.4	10 100 8		S S	6.5 96.0 4.9 96.0	95.	igi k	מ מ	1	9 2	9	91.5 93.6	92.	4	.2	72 0 74 3	4 66	61.0 61.0	06.2 108.1	02-20-78 C41 ANECE	ACOUSTIC 2 H (4	
		8			87.4	88,5	9 9 9 9	92.0	96.4	83.3	96.5	25.7	2.5	95.6		, 4		i vi			4 4	1	6	106.0 1	TEST DATE OF LOCATION C	12.	
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		EPED	S 8 8	•		400		l	1000	1600 91		2500 93	4000 92	ĺ	6300				1	31500 75	\$0000 \$0000 \$0	-	80000 52	DASPL 104		1300 T	619

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	IDENTIFICATION - FJ-ZER-FMGDL X73	40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, PWL		33.0 86.6 86.6 67.1 86.2 80.3 93.2 94.1 89.1 103.7 108.0 111.0 110.6 144.4	. 9 88.7 88.5 88.3 90.4 92.2 93.4 95.5 102.5 109.6 112.9 114.1 111.5 148.0 .0 89.5 90.8 90.1 92.9 93.3 94.9 96.9 103.6 110.9 113.6 115.0 112.1 148.9 .2 90.7 90.9 91.0 100.6 94.4 95.8 98.5 105.2 111.3 114.6 115.6 113.0 149.7 .7 91.5 92.0 93.3 93.9 95.7 97.9 100.0 106.7 111.8 115.4 116.4 114.0 150.5	20 96.6 96.4 95.6 95.2 97.1 98.2 100.9 107.1 110.9 114.6 116.0 113.9 150.1 15.9 150.1 15.9 95.5 95.5 96.5 97.1 99.5 99.3 102.3 107.9 109.8 114.9 116.8 113.2 150.4 15.9 11.9 149.9 96.0 98.4 99.7 102.7 108.0 110.2 114.7 115.9 111.9 149.9 149.9 96.0 98.4 99.7 102.7 108.0 110.2 114.7 115.9 111.9 149.9 148.3 17.9 96.5 95.5 97.2 98.8 102.5 107.9 109.3 113.0 113.2 109.0 148.3	.5 94.8 95.1 95.9 96.2 98.0 100.2 102.1 107.7 110.0 112.9 112.6 107.1 148.2	2 92.1 93.1 93.6 94.8 97.2 98.6 101.1 105.5 105.7 107.0 106.3 103.5 144. 3 92.1 92.5 92.7 94.5 96.9 97.7 100.0 104.4 104.0 105.6 104.8 102.4 143. 2 90.9 91.6 92.3 94.1 96.5 96.7 99.5 103.0 102.5 103.9 100.4 100.4 143. 4 90.0 90.2 91.5 93.6 95.3 95.7 97.3 100.2 100.6 101.6 101.5 100.0 147.	7 86.1 89.2 90.8 93.3 94.5 93.5 95.8 98.2 98.9 99.0 99.9 98.1 141.4 7 85.7 86.2 87.8 92.1 92.7 90.9 92.9 95.0 95.4 95.7 96.3 95.5 140.3 2 81.7 83.5 84.1 89.3 89.7 88.2 87.8 91.7 90.5 91.6 92.5 92.5 138.9	.0 72.9 76.4 77.9 82.2 82.4 78.8 79.7 83.4 83.3 84.3 82.7 83.0 1 8 66.3 68.8 72.0 74.3 75.5 73.5 72.9 78.6 76.5 78.6 78.2 76.4 1 5 60.1 62.5 65.4 66.1 66.7 68.0 66.1 73.6 69.6 72.1 72.4 70.8 1 3 53.3 57.3 61.0 61.0 62.2 60.9 60.9 66.9 62.9 63.2 64.7 64.4 1	.2 105.9 106.0 15J.2 108.1 109.3 110.6 113.1 118.4 121.3 124.8 125.7 122.8 160.1 El felle seze scale factor - Free Jet Veldolty (FT/SEC) - 0	OUT 1,000 CALC, 1,000 FREE JET DIAMETER (IN) 48,00 TURBULANCE CORRECTION - TEST DATE 02-20-78 TAME 30.56	LOCATION C41 ANECH CH AERO. RDG. ADHO72 PAMB 29.1940 RE	12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 0. M/SEC (
		40.	m 0 0 m	83.0 88.	85.9 88. 87.0 89. 87.9 90.	96.0 91.9 94.2 95.2 93.0	93.5 94.5 92.8 93.	89.3 87.2 89.3 87.2 87.2	82.7 88. 77.7 85. 76.2 81.	70.0 72. 63.8 66. 57.5 60. 52.3 53.	104.2 105.9 Manel /Fill 1. S	Į,	i di	č 0 –	
		FRED	885	160 200 250 315	400 630 630	1000 1250 1600	250 2150 4000	8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0. 01 td	63000 80000 80000	SASPL SASPL	SNITHIS	1 3 3 9 V a		

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. E. 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

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												:					•											:			30.56	12	o.	
		ā	165.6	166.6	157.4	167.7	168.0	167.6	165.0	164.9	163.7	162.9	161.3	160.5	139.4	157.9	156.6	156.2		153	154.1							177.9			TAMB	RELHUM		
		160.	84.2	•	80.0		85.0	83.2	79.67	74.9		70.7			55.7	4 .	36.9	•										94.0	83.4	_			- FULL	
_		150.	1.08	80.08	9 9 9 9	97.6	92.2	0.1	87.5	83.8	61.1	79.0	75.6	73.3	70.1 66.8	60.4	51.3	38.7	4									100.6	101	6. 14	SB59	29.1940	CN1 DS	
X73011	DEGREES	140.	2 18	_		2 . 2		92.2	90.2 80.2	88.4	86.4	94.2	90.0	77.8		٠.	58.5	49.0	7	•								102.0	N	Y SHIFT	IALPHA	PAMB	. 00 S	
10DL	1	130.	89.3	9		4 N	N	₹ :	99.20 51.20	9	N	84.4 80.4	-	78.8	76.4		62.0	•	J.	0.								100.1		FREQUENCY	=		\$12E (1400.00	
FJ-ZER-FMØDL	FROM INLET	120.	3.3			87.5	ł	4	0.70 0.70	4	0	0 0	9	0	7.7.7	90	N	4	90	9 4 7 4								103.0	1	F.	294	ADH072	SQ CM	
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IDENTIFICATI	MOLES.	90.	3 75	4	io i	7.79	6		œ c	4	9	7.4 79	19	4	.	-	<u>ر</u>	N.	۹,	n o o	,			•				N 0	4	ER RATIO		A	ł	
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		2	8 72	74	85	٠ ر ا	7 78	0	3 76			75	1		9 43	1	٠ 4	. 1 58	,	8 C								6.6			-20-78	ANECH	COUST M (
		2	3 69			74.	ĺ	92	5 76.			73.1					88	20	45	1 28.	ń										02	2	731.5	
		99	69	71	7	72.7	76.	74	76.	42		2	15		67.	9	20.	2	q.												T DAT	LOCATION	=	
		8	E			71.1			76.1	1		69.7			65.7	4		44.3		1.3							1	84.3			TES	įZ	TEST POINT 7301	
		9	54			69.7	1.		72.1	Ł		86.8			57.4	4	• ' •	35.6	- 4									81.0 84.6	- 1				1	
			FREG	63	80	8	160	200	250	315	200	630	900	1250	1600	2000	2.000 0.000 0.000 0.000	4000	5000	6300	10000	12500	16000 20000	25000	31500	50000 50000	80000	GASPL	PNI T				MGDEL 7300	 21

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																											FREE-JET SPEED 1 M/SEC (306.0 FPS)		
NO NO SE	•			PWL				140.3	143.0	143.6		142.6	Ι			Γ,	140.6	_		'	- -			132.4		1 22	117.60		
40.0 FT. ARC	L X73020 L X01400	EES	. 150. 160.					0.	4 109.1 103.5	9	105.0	5 g	89.0 88	4.00	97,1 88	96.2 88.	000.4 000.4 000.0	94.1 87.	93.7 67.	96.	86.4 63.	79.6 76.	72.	1 62.3 60.3	116.3 111.	SB59	SQ IN) - MQC		
SOUND PRESSURE LEVELS CORRECTED 70 PERCENT R.H. STD. DAY, SB	FJ-400-FMGDL D FJB400-FMGDL		20. 130. 140			•		5 99.6 104	.4 101.2 106 .7 105.5 108	106.6 110	9 107.5 109	5 106.8 108 0 106.5 107	4 106.1 106	. 8 105.2 104 . 5 106.4 103	1 105.0 102	7 104.5 102	0 103 3 100	6 102.0 99	8 101.1 98	9 97.4 93	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 86.6 83	7 80.1 78.	6 65 6 65	.3 58.9 58.	D IALPH			40
ERCENT R.H. S	N - MGDEL BACKGRØUND	ME	00. 110. 1					98.2		92.0	63.7	93.4 96.5 103	98.1	9.00	99.4	98.5	0 6 0 6	97.4	96.9	93.7	90.08	82.6	77.9	1	9.0 08.2 6.2 109.6 1	TAPE NO.	154.		
DEG. F., 70 P	IDENTIFICATION	ANGLES	60. 90. 1	-				3.0 85.3	6 97.0	7.6 86.4	9.00	92.2	4 93.6	10 10 10 10 10	7 93.8	.6 93.2		1 93.0	4 93.5	6. 91.6	0.00	1 82.4	.6 80.6 73.4	0	58.8 61.0 03.2 105.1 1	92 92	RANGE 40.0 FT)		
59.0 DEG. F.,			60. 70.					.0 62.	63.7 83.6	. 8 34	1 87.	87.2 87.5 88.6 88.9	8 89.0	. 00 00 00 00	1 89.4	0 88.3	6 88 3	9 68.0	60 g	4.	60	7	7.07	62.2 64.3	0 100.7	DATE 02-2	ACC 12.2 P		
			40. 50.			·		78.8 81.	95.0 95.0	62.4 63.	85.6 94.	86.2 85.4	86.9 86.	80.0 80.0	85.9 86.	85.7 85.	85.8 86.	87.1 87.	86.1 88. 85.0 87.	82.0	77 3 79	76.3 76.	71.6	60.4 60.	97.9 98.8		TEST PC	,	
				F B B B B B B B B B B B B B B B B B B B	900	128	2 2 8 9 9 9 9	250	2 6 6 0	200	000	1000	1600	7 7000 7 7000 7 7000 7 7000	3150	4000	9000	9000	0000	16000							MODEL 7300		,

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																										N – YES N = YES			FREE-JET SPEED MYSEC (386.0 FPS)		TREE-JEI STEEU S M/SEC (366.0 FPS
							•	7		. 9.	0 M	· - (Ne	ar	~ ~	10	? (V		, w.	rù eò	9	9.	7	9) (D .	CORRECTION	28.	H 43.40	FREE 117.65 M/S		117.65 M/
r. ARC			160. Pui				103.2 137.	141	00.9 141.	.4 142	9 6	4	3 141	7	4.9	-	4.0.	.3 140	. 2 140 140	95.1 139.1 92.8 139.	.1 133	. 2 138 . 0 137	.6 136	פיים י	113.4 164.	REFRACTION Turbulance	TAM	10 RELHUM	HODEL		- FULL
40.0 FT	X73020	DEGREES	0. 150.				-	101		108	30	•	Sa	5	a a	8	3 8	8) 3 3	.7 90.5	95	72	67.	2.70 5.	.0 115.6	88	- 1	HB 29.5700	(NI 08 6	•	PC 90 1N)
. DAY, SB		INLET, DEG	130. 140				•	Γ,		-1			_ -	_		1- •	_	- 1		91.7 89.7	1	72.9 72	0		-	7/SEC) 386 7 (IN) 40		PAMB	SIZE CM (23.99		81 CH (1400.00
K.H. 810.	•	ED FROM	10. 120.				0	8		101	4 102 102	3 103	8 103	6 105	6 104 3 104	6	7 108	100	- 0	92.6 93.0 86.2 91.9	3 86.	6 24. 6 79.	8 74.	ָּע ל	7	VELOCITY (FT/SEC) Jet Diameter (IN)	1.	19. ADH992	154.7 30 (9032.2 \$0
DEG. F., /U PERCENI	0	ANGLES MEASUR	. 100. 1				66.1	8 5. 8	· •	88.8	9 6	83.3	94.2	92.0	9 90	97.0	0.0	92.0	92.3	3 90.4 0 86.5 8	84.2		68.7	0.20	9 2	FREE JET VE FREE JE	TAPE NO.	AERG. RO	T) ARC		SL.
DEG. F.,	DEN	AK	.00				4.5	.5 86.	. 6 97. . 6 98.	.2	200	41	3	8	6 6 6 6	2 96.	9	0.0	9	53.55 93.3 90.6 91.0	.1 85.	.4.	.1 68.		0	•	78	ANECH CH	TIC RANGE 40.0 FT)		\$11C KANGE (2400.0 FT)
			. 70.		37			92.0	96.0 86.0	98.3		0.0	92.7	95.0	8 8 9 9	5 92.7	9.0.	4.20	97.10	5 51 6 69	1 84.7	0 IO	71.2	ָּטְ פּי		SCALE FACTOR Calc. 1.000	02-5	2	ACCUSTIC 12.2 M (4		ACOUS! 731.5 M (3
			20.00		7)		N	2	9 0	0	<u>.</u> ო	٠. ٥	ناد	4	– ო	~ 1	. 0	,) ř-	90.5 91. 89.7 88.	0	ָא כ	4		601.2	\$1 ZE 000	TEST DATE	LOCATIO	- POINT -302		17 PCINT 7302
			40.	0 5	<u> </u>	125 160	92	92	86.	8	2 0	8	2	83	0 0 0 0	92	8	2	3 6	00 00 00 00 00 00 00 00 00 00 00 00 00	9.	7.5	8		UASFL 100.4	MODEL/FULL INPUT 1.			MODEL TEST 7300 73	623	MODEL TEST 7300 7

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07/17/79 10.160														00)Ri)F	GI P		AL OR	. F	À	GE AL	19 1 T Y											. 40	FREE-JET SPEED 5 M/SEC (386.0 FPS)	
E LEVELS	16			160.	78.4 189.7	D)		4	0 158	69.4 156.6 68.9 159.0	2 159	۵,	55.6 159.2		ø.		9 158	.8 157	37.2 157.5	. U 105	165.3	164.3 163.1								62.5 172.2 83.6	14.6		TAMB 20 RELHUM 43	FULL 117.65	
SOUND PRESSUR	SB 2400.0 FT.	X73021	DEGNEES	140. 150. 1	7 84.0	9 62.7	61.8	1 76.8	75.1	73.5	4 74.2	73.2	7 7 6	0 0	4.69.4		62.9	9 54.7	6 47.9	32.9	10									96.1 99.6	1 90.1	24 SHIFT -S	ALPHA \$859 PAMB 29.5700	SIZE 00.00 SQ IN) -	
EXTRAPOLATED	i. STD. DAY,	FJ-400-FMGDL	FROM INLET, I	120, 130,		•	90.	2	۲.	vi o	.7 83.	.7	٥,	6 79	.7 79.	ه م	73	.3 65.	66.3 63.8	30 2	31.6 17.9									94.0	4 100	FREGUENCY	N299 I./ ADH992	SIZE .2 SQ CM (1400.00	
SCALED, AND	59.0 DEG. F., TO PERCENT R.H. STD. DAY,	DENTIFICATION - F	ANGLES MEASURED	100. 110.	69	70.5 71.	71.8 73.4	74.3 7	4:	, , ,	76.6 78.	78.7	77.2 79.	76.4 78.	75.8 76.	0 K	71.6 73.	69.1		00.00 47.0	33.2 29.	⊕. œ.								67.3 66.9 94.5 95.0	94.6 96	RATIO 7.640	TAPE NG. Aerg. RDG.	SL 9032	
TRANSFORMED,	.o DEG. F., 7	IDENT	ANG	. 60. 90.	68.2 89	71.6 70.	8 81.1 72.2 v 71 8 72 1	72.7 74.	74.1 75.	73.6 75.	74.0 76.	74.5 76.	74.4 76.	74.5 77.	73.8 75.	73.7 76.	72.8 74.	72.2 72.	67.9 68.	53.4 53	98 99	9.2 10.								87.0 87 85.2 96	96.5 97.	DIAMETER	-27-78 1 ANECH CH	ACGUSTIC RANGE 5 M (2400,0 FT)	
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				40. 50	66.0 67.	66.6 68.	67.9 69.	70.9 69.	71.3 71.	71.4 71.	69.9 71.	68.8 71.	68.2 70.	67.8 69.	69.7 71.	67.6	63.2 67.	58.3 64.	52.5 61.	30.6 38	10.3 21.	0 0	0	9 (20	0 0	0	0		81.4 82.	86.8 90.		# #	L TEST POINT	
624				Q U	200	(20	8 2	12	916	02 10 10 10 10 10 10 10 10 10 10 10 10 10	31	4 1	9 9	90	8	2 2 2	200	220	3150	500	630	0000 0000	1250	1600	2500	31500	2000	63000	7000	OASPL PNI	PNL			MODEL 7300	

										SPEED 0. FPS)	: 1
61					-				30.29 18.50	FREE-JET 8 0. M/SEC (
PRESSURE LEVELS CORREERCENT R. H. STD. DAY. N - MODEL FJ-ZER- BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, PUL	50 63 60 100 125 160	8 87.1 £5.1 88.2 90.6 93.0 94.4 99.3 103.7 1 7 87.7 88.5 90.6 91.9 93.1 95.0 100.9 105.5 1 7 88.5 88.3 90.1 92.5 94.1 95.8 102.2 109.0 1 3 90.3 90.1 92.2 93.8 94.9 96.9 103.6 110.1	87 9 90 7 90 7 91 2 98 8 94 9 96 3 99 0 100 4 110 3 112 9 115 1 114 0 1 91 7 51 2 92 0 92 5 93 6 95 7 97 4 100 0 106 7 110 8 113 7 115 1 114 0 1 93 8 94 3 95 4 94 4 95 0 96 8 98 7 100 9 107 9 110 2 112 8 115 0 114 1 1 91 4 95 0 95 0 95 5 96 1 96 2 99 3 102 0 107 9 110 1 112 9 115 1 113 5 1	93.2 95.5 94.7 94.7 95.3 97.4 99.3 102.2 108.4 110.6 112.0 113.7 111.0 148 93.0 94.3 94.4 95.2 97.6 99.9 102.9 108.0 110.7 112.3 109.1 148 93.0 94.3 94.6 95.3 96.2 97.6 99.9 102.9 108.0 110.7 112.6 112.3 109.1 148 93.5 95.6 94.6 95.3 96.2 97.6 97.6 97.6 97.7 108.0 110.6 107.6 147	93.3 94.6 93.8 94.1 94.1 95.5 97.6 99.5 102.6 106.8 108.0 109.7 107.9 105.1 146 92.6 93.9 94.1 94.1 95.5 97.6 99.5 102.1 106.2 107.2 108.0 106.6 104.5 145 91.2 94.6 95.3 94.3 95.6 97.1 98.7 102.8 105.4 105.5 106.4 105.3 103.4 144 99.3 93.3 93.4 94.0 96.4 98.0 97.7 100.8 105.4 104.2 104.7 104.8 102.0 144	84.9 91.0 92.4 93.1 95.1 96.8 96.5 98.6 101.2 101.9 102.4 102.3 63.9 89.6 91.2 92.3 94.5 96.0 95.0 97.1 99.2 100.1 100.3 100.9 78.4 86.9 87.9 90.1 93.4 94.0 92.1 94.2 96.5 97.0 97.5 97.8 77.2 82.5 84.8 86.1 90.8 91.7 89.5 38.2 93.8 92.8 93.9	75.3 79.3 82.5 84.7 86.0 86.3 85.7 86.7 84.8 80.5 80.9 80.7 80.7 87.2 77.7 79.9 84.2 84.4 80.5 81.7 84.9 84.8 85.8 83.5 83.5 83.5 83.6 67.6 70.0 73.5 76.8 77.5 77.0 75.1 81.1 78.3 79.9 78.0 77.9 83.6 67.6 70.0 73.5 76.8 77.5 77.0 75.1 81.1 78.3 79.5 78.0 77.9 85.0 61.4 64.2 67.4 68.5 69.7 62.9 63.4 63.3 70.1 65.9 69.7 66.4 64.4 151.3 54.2 57.7 61.5 61.7 62.9 63.4 63.3 70.1 65.9 69.7 66.4 64.4 1	DATE 02-20-78 TAPE NG. N294 IALPHA TION C41 ANECH CH AERG. RDG. ADHO74 PAMB	MODEL TEST POINT ACGUSTIC RANGE 7300 7303 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL	625

07/19/79 16.662													1,3		O R	RIG F	iiN PO	AL OR	- F	PA	GE AL	H	B Y					RECTION - YES	CORRECTION - YES	G ()	18.50	FREE-JET SPEED		, sage:	新 · · · · · · · · · · · · · · · · · · ·
FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS	IDENTIFICATION - FJ-ZER-FMODL X73030	ANGLES MEASURED FROM INLET, DEGREES	40. 60. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160.					83.3 88.6 87.	86.2 88.7 88.5 88.3 90.1 92.5 94.1 95.8 102.2 1	87.0 89.3 90.3 90.1 92.2 93.8 94.9 96.9 103.6 110.1 113.3 114.9 112.4 148	87.9 80.7 80.7 81.2 98.8 94.9 96.3 99.0 105.4 110.3 113,6 115.1 113.5 149	93.8 94.3 95.4 94.4 95.0 96.8 98.7 100.9 107.9 110.2 112.8 115.0 114.1 149	91.4 95.0 95.0 95.5 96.1 98.2 99.3 102.0 107.9 110.1 112.9 115.1 113.5 149	93.0 93.1 93.9 94.2 96.0 98.1 99.7 102.4 108.5 110.5 112.7 114.9 11	93.0 94.3 94.4 95.4 96.2 97.6 99.9 102.9 108.0 110.7 112.6 112.3 109.1 148	93.5 95.6 94.6 95.3 96.2 98.3 100.2 103.3 108.2 109.0 111.9 110.6 107.6 147	93.3 94.6 93.8 94.1 95.4 97.3 99.4 102.6 107.7 108.2 110.9 108.6 1 92.6 93.9 94.1 94.1 95.5 97.6 99.5 102.6 106.8 108.0 109.7 107.9 1	91.2 94.6 95.3 94.3 95.6 98.0 99.7 102.1 106.2 107.2 108.0 106.6 104.5 145	90.0 93.4 94.3 95.4 96.0 97.1 98.7 100.8 105.4 105.5 106.4 105.3 103.4 1	88.4 92.7 93.9 94.0 96.4 98.0 97.7 100.5 103.8 104.2 104.7 104.8 102.0 144 84.9 91.0 92.4 93.1 95.1 96.8 96.5 98.6 101.2 101.9 102.4 102.3 100.0 142	83.9 89.6 91.2 92.3 94.5 96.0 95.0 97.1 99.2 100.1 100.3 100.9 98.4 1	78.4 86.9 87.9 90.1 93.4 94.0 92.1 94.2 86.5 97.0 97. 77.2 82.5 84.8 86.1 90.8 91.7 89.5 89.2 93.8 92.8 93.	75.3 79.3 82.5 84.7 86.0 86.3 85.7 86.7 89.8 90.5 90.7 89.0 87.6 140	70.3 73.7 77.7 79.9 84.2 84.4 80.5 81.7 84.9 84.8 85.8 83.2 83.5 1	63.6 67.6 70.0 73.5 76.8 77.5 77.0 75.1 81.1 78.3 79.9 78.0 58.0 61.4 64.2 67.4 68.5 69.7 72.0 69.6 76.6 71.0 73.6 73.2	51.3 54.2 57.7 61.5 61.7 62.9 63.4 63.3 70.1 65.9 69.7 66.4 64.4 138.	103.7 105.8 106.1 106.5 108.2 109.6 110.9 113.6 118.9 121.4 123.9 125.2 123.3 160.4	E FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION	(IN) 48.00 TURBULANCE	N294 IALPHA SB59 TAMB	C41 ANECH CH AERG. RDG. ADHO74 PAMB 29.2980 RELHUM	TEST POINT ACGUSTIC RANGE SIZE	7303 12,2 M (40.0 FT) ARC 154.7 SQ CM (
626				63	200	125	160	250	400	200	630	1000	1250	1600	2500	3150	4 000	6300	0000	12500	16000	20000	31500	40000	20000	80000	OASPL					MODEL	7300		

LEVELS	
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, AND EXTRAPOLATED SOUN	L DAY
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÷	F. 70
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FLIGHT	25
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	٠																																	30.29 10.60	FREE-JET O. M/SEC (
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E 1-750-FMCC		FROM INLET	120. 130	83.1 88	60	86.2 90	88.5 89.7		00 0	9 6	6	90	85.6 85	9 8	. 60	78.7 77		68.2 64	.4 57	9.3 44	36.4 23	•						•	1	8 5 5 5 6 6 7	104.1.103	FREG		N294 ADH074	SQ CM		
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	DEGREES	140.					104.0	100.4	108.5	109.1	108.4	107.3	106.3	104.	104.7	103.0		1		98.6				67.9	118.4	ALPHA	31 ZE 23.99	
	INLET,	130.	•	÷			98.6	20.5	105.8	106.2	107.6	107.5	107.4	107.2	106.5	106.0	106.2	104.6	102.4	100.0	91.7	9 6	76.0	69.0 62.3	118.5		_	
	1	120.					2.7	96.4	98.7	6.00	0.00 0.00 0.00	9.20	9.9	9 60	05.8	08.0	0.40 N. 0.	1.7	9.00	97.7	92.8	83.4	78.9	75.5 67.7	116.1	N299 ADH993	SOCM	-
BACKGROUND	SURED F	110.					99.6	9.0	91.7	93.4	100	97.4	98.3	0.00	00.4	60.00		98.9	- 0.96 96.90	50.00 0.00	87.9	0.0	73.4	67.8 61.3	110.4 1	ROG.	4.	
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		6					78.8	60.0	82.1	63.2	9 0	95.3	87.6	96.2	96.6	87.2	20.0	90.7	86.7	80.0	79.9	73.9	67.5	54.9	99.7			
			F. C. C. C. C. C. C. C. C. C. C. C. C. C.	8 8	100 125	160	280	8 0 8 0	200	630	1000	1250	1600	2500	3150	0004	8300	9000	2000	0000	2000	0000	0000	3000	OASPL		MGDEL 7300	

								OI OI	RIG F F				AC UA	ALI'	13 TY							YES		3FEED 386.0 FPS)	
									10 C				N	\$ ••	e -		N 6			960	0	CORRECTION -	8 29.66 H 43.80	FREE-JET 117.85 M/SEC (
	160.	Pal		.7 137	0,4	1 99.5 140.8	100.0	0.08	7.00	99.7	100.4	100.6	102.0	102.6	102.8	.00	4 97.6 142.2 2 95.6 142.3	90.1	9	2 65.6 137.0	2 114.3 156.0	REFRACTION TURBULANCE	SB59 TAMB 29.5700 RELHUM) - MODEL	
. t	, DEGREES . 140. 150.			0 100.6 103.	105.6	106.6 105	306.3	105.8 99	7 105.0 99.2	104.3 99	104.6 100	4 4	104.0	102.4	101	97.7	95.0	86.3	76.4 76.	2 62.2 60.	7 117.2 116.2	386.00 386.00	IALPHA SESS PAMB 29.5	SI ZE 23.99 SQ IN)	
) FROM INLET. 130			0.68	96.1	98.7	101.2	103.	103.7	104.6	105.7	106.0	105.7	0.40	102.1	90.00	0 05.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.00 04.0	89.0	63.9 77.	67.7 62.	9 116.1 117.7	ELOCITY (FT/SEC) Et diameter (IN)	N299 ADH993	4.7 SQ CM (
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SIZE SCALE FACTOR FREE	VELOCITY (FT/SEC)		CORRECTION -	
CALC. 1.000	JET DIAM	00 TURBULANCE	E CORRECTION - YES	
TEST DATE 02-27-78 TAP LOCATION C41 ANECH CH AERO.	TAPE NG. N299 IALPHA Rg. Rdg. Adhio9 Pamb	29.3300 RELHUM	TB 36.00	•
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FMODL	INLET,	130.	82.4	82.8	84.0	83.8	84.3	84.7	85.5	82.5	0 X	2. 4.	84.5	63.7	82.0	81.6	78.7	5.6	8 0	0 Y		1									96.3	102.5		FREGUENCY	-			-
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. CAY, SB 2400.0 FT. SL

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SOUND PRES	CATION -	ANGLES ME	3					8	88	97.		9	102	69	503	103.	<u> </u>	9	50	5.5	98.	20.0	407	7.	115.8	TAPE AERÓ. F	ARC	i	
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC I DENTIFICATION - FJ-150-FMØDL X74020	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 100. 110. 120. 130. 140. 150. 160. PWL	88.4 92.7 91.0 91.2 91.0 92.8 94	90.1 90.9 91.2 91.2 93.2 94.6 94.5 96.1 101.0 107.4 111.6 115.4 115.2 148 92.1 92.2 93.2 93.2 93.2 94.5 95.2 97.5 102.8 112.1 115.4 117.4 115.9 150 92.7 92.8 94.3 93.0 94.1 96.1 96.8 99.1 104.1 113.7 117.3 119.0 117.2 152 94.3 94.4 95.4 95.4 95.4 95.4 95.4 113.7 117.3 119.0 117.2 152 94.3 94.4 95.4 94.3 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4	. 6 102.0 106.4 114.5 116.5 120.6 11 .6 103.0 106.4 114.5 116.5 120.6 11 .1 104.1 110.2 114.5 116.5 120.9 11 .0 105.5 111.0 114.5 119.2 120.9 11	100.2 99.7 99.7 96.8 99.0 100.9 10;; 8 106.2 111.7 115.2 118.9 119.4 110.8 104.6 102.8 101.9 100.2 99.9 101.6 103.0 106.1 111.3 116.0 117.6 116.8 108.7 1 107.6 106.5 104.6 102.6 101.2 102.7 103.6 106.7 111.6 115.3 116.6 114.9 106.4 105.6 105.4 106.8 104.7 102.7 102.9 103.5 106.9 111.1 115.0 115.0 115.3 105.0 1	105.1 104.7 106.0 105.4 105.5 105.0 104.1 107.0 110.9 115.1 113.9 110.6 104.6 7 104.6 105.1 10.6 105.5 105.2 105.2 105.2 105.0 105.3 106.2 105.0 105.3 106.2 107.3 110.9 114.3 113.4 109.5 103.2 1 104.9 105.5 105.6 105.0 105.8 106.2 107.0 110.7 112.9 111.7 108.7 103.0 1 103.9 105.1 106.4 105.1 106.8 107.5 106.2 107.5 110.0 112.5 110.9 107.5 101.9 1	101.2 103.8 104.7 104.8 106.0 107.0 106.0 106.7 108.3 110.6 108.5 106.1 101.8 100.4 101.8 100.4 101.8 100.8 104.5 106.8 107.3 104.8 106.4 107.5 110.4 106.9 104.7 100.1 195.3 100.1 101.3 102.2 105.2 105.3 102.9 103.9 103.8 107.2 104.8 102.0 99.2 193.5 96.0 98.2 98.9 103.1 103.1 100.1 99.5 103.5 102.8 100.7 98.9 94.8 1	.1 100.9 101.9 96.2 93.3 91.2 1 .4 95.2 96.8 93.8 88.5 85.0 1 .5 91.1 90.1 87.6 83.2 79.5 1 .2 96.4 84.6 81.3 78.4 73.4 1	115.0 115.2 115.9 115.1 116.0 116.9 116.0 118.1 122.4 126.6 128.8 129.9 126.2 166.0	ALE FACTOR FREE JET VELOCITY (FT/SEC) C. 1.000 FREE JET DIAMETER (IN)	TEST DATE 02-27-78 TAPE NG. N299 Löcation C41 Anech Ch Aero. RDg. Adh124	MODEL TEST POINT ACGUSTIC RANGE 512E 512E 7402 7402 12.2 M (40.0 FT) ARC 154.7 SG CM (23.99 SG IN) - MODEL 45.11 M/SEC (14.	

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	UNITRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICAȚION - MODEL FJ-300-FMODL X74030 BACKGROUND FJB300-FMODL X01300	ANGLES MEASURED FROM INLET, DEGREES	40, 50, 60, 70, 80, 80, 100, 110, 120, 130, 140, 150, 160,						3 67.6 67.3 68.4 69.5 91.6 93.7 96.1 99.3 106.4 111.0 114.7 1	.9 87.4 88.2 88.7 90.5 92.7 93.5 96.0 100.9 106.2 112.6 116.3 113.7 1	.5 69.0 91.0 90.8 91.9 94.3 95.7 97.8 1	.8 89.9 91.4 91.7 93.2 95.9 96.8 100.2 106.1 114.4 118.1 116.8 108.4	.1 90.6 92.4 92.9 94.0 96.4 97.8 101.4 107.4 114.2 117.6 116.3 105.4 1	. 6 94.1 95.3 95.4 97.0 99.3 100.2 103.9 109.1 113.9 115.6 111.5 99.1 1	6 92.9 95.0 95.2 97.1 100.0 101.1 104.7 110.2 113.5 116.3 109.7 99.5 1	.5 95.3 96.5 95.6 96.7 99.0 101.4 105.1 110.8 115.1 115.6 108.6 99.3 1	. 0 104.7 103.3 101.0 99.4 101.5 102.4 106.5 111.5 115.1 115.6 108.7 100.0 1	105.9 103.9 101.7 102.1 103.0 106.2 111.7 115	0 102.4 104.1 104.1 105.3 106.2 105.1 106.8 111.0 114.5 113.0 105.3 98.7 1	3 103.0 103.6 103.7 104.8 106.2 105.7 107.3 110.8 113.8 111.5 104.3 97.6 1	.7 102.2 104.1 103.9 105.0 106.3 106.3 107.6 109.9 112.6 110.1 104.1 97.0 1 7 100 8 102.5 103 2 104 7 105 4 105 1 106 7 107 9 110 9 108 1 102 1 95 5 1	.5 99.2 101.3 102.5 104.7 106.1 104.1 105.3 106.9 110.2 106.1 100.7 94.2 150.	.9 96.0 98.0 99.8 103.2 104.5 101.7 103.4 104.5 107.1 103.2 98.1 92.5 1	.0 86.6 93.1 94.6 95.3 96.1 95.0 95.3 99.4 100.7 96.5 99.5 .0 86.6 93.1 94.6 95.3 96.1 95.0 95.3 99.4 100.7 96.5 89.5	.8 83.7 87.4 89.2 93.1 93.1 89.7 90.5 94.1 95.3 91.0 64.1 81.2 1	70.9 74.3 76.5 76.8 77.4 79.2 77.4 84.2 81.4 78.8 73.3 54.5 75.3 76.5 77.4 79.2 77.4 84.2 81.4 78.5 75.5 54.5	1 110 R 113 7 113 4 114 4 111 R 111 A 112 7 100 0 106 R 107 A 100 0 16	TEST DATE 02-27-78 TAPE NG. N299 IALPHA SB59 TAMB 31. LGCATIGN C41 ANECH AERG. RD8. ADH125 PAMB 29.5600 RELHUM 64.	ACGUSTIC RANGE SIZE	7403 12.2 H (
640					FREG	888	100	125	7 200 7	1			1			•	•		1	-		-		20000	31500	40000	63000	00000 0 M			7400	TIMAN	

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96.0 DEG 1. TANNSPORMED MODEL SQUING PRESSURE LEVELS. 96.0 TO. 80. 90. 100. 110. 120. 130. 140. 180. 180. PM. 98.0 PM. 100. 90. 100. 110. 120. 130. 140. 180. 180. PM. 98.0 PM. 100. 90. 90. 100. 110. 120. 130. 140. 180. 180. PM. 98.0 PM. 100. 90. 90. 100. 110. 120. 130. 140. 180. 180. 180. PM. 98.0 PM. 100. 90. 90. 100. 110. 120. 130. 140. 180. 112. 111. 181. 180. 180. 180. 180. 180. 180	001.01											OI OI					PA QU												10N - YES 10N - YES			FREE-JET SPEED M/SEC (300.0 FPS)		
### Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100 Page 100		FLIGHT TRANSFORMED MODEL SOUND FRESSURE LEVELS DEG. F., 70 PERCENT R.H. STD. DAY, 58 40.0 FT.	10N - FJ-300-FMODL	MEASURED FROM INLET,	40. 80, 60, 70, 60, 90, 100, 110, 120, 130, 140, 150, 160.		001	091	90.0 92.4 90.6 90.7 90.6 91.6 92.3 93.4 98.2 104.8 1	90.0 92.4 90.8 91.2 91.9 92.6 92.6 10.1 110.4 113.3 116.6 112.9 1	91.5 92.1 91.8 92.0 92.7 93.6 93.9 95.1 102.0 111.6 116.0 116.6 112.6 93.2 93.4 93.5 93.4 93.3 94.5 94.9 96.3 104.6 112.6 116.5 116.7 111.9 1	94.1 93.7 94.7 94.2 94.6 96.1 96.0 98.5 106.1 112.7 116.4 116.2 111.0	94.4 94.6 95.1 95.4 95.4 96.7 97.0 99.6 107.7 112.6 115.4 115.7 110.2 1 97.3 95.1 95.9 96.3 96.8 96.1 96.9 101.4 107.9 112.4 114.6 112.8 106.1 1	98,4 96,7 98,3 98,1 98,6 99,8 99,5 102,2 109,1 112,3 175,1 110,9 106,2 1	97.4 98.8 99.1 98.0 98.8 100.5 100.5 103.1 109.8 113.8 114.5 109.7 105.7	100.2 97.7 98.6 98.1 98.3 99.7 101.0 103.6 109.9 114.7 114.9 110.1 105.6 1	105.9 103.9 102.1 103.6 101.1 102.6 102.4 105.5 111.6 114.6 115.1 110.3 106.6 151	110.0 109.0 106.7 106.5 103.7 103.5 103.3 105.5 111.3 115.6 114.6 108.5 106.8 152	106.9 106.9 108.4 107.9 106.4 106.5 106.3 107.1 112.4 114.9 112.6 107.9 106.3 1	107.2 107.1 108.3 107.9 108.3 109.0 107.6 108.1 111.7 114.0 111.7 107.9 105.9 1	105.5 169.6 108.1 107.5 108.4 108.4 107.1 107.7 109.6 112.5 108.6 105.4 104.0 1	103.0 104.7 105.9 107.6 108.7 109.1 106.2 106.3 107.7 109.8 106.2 103.2 102.9 1	102,4 104,4 105,6 104,9 107,3 107,6 103,9 104,5 106,9 106,6 103,6 101,5 104,4 153, 97,2 100,6 101,7 100,8 104,3 104,1 101,4 99,9 103,9 104,8 100,7 96,0 97,4 152,	95,1 96,0 98,2 98.8 98,9 99,1 97,1 96,4 99,6 100,3 96,2 91.5 93,6 151	90.6 89.9 93.9 94.3 97.2 96.1 91.8 91.6 95.2 94.0 90.4 86.9 88.2 150.	87.1 86.2 89.1 87.3 88.0 89.7 80.8 80.0 30.0 30.8 87.2 84.8 81.6 75.2 76.6 148	70.0 69.3 72.2 76.9 74.2 74.8 73.7 73.0 77.4 74.9 71.7 65.4 66.8 147	117.0 116.9 117.4 117.2 117.6 118.0 118.5 117.6 122.4 126.1 126.9 125.3 121.6 165	SCALE FACTOR FREE JET VELOCITY (FT/SEC) 300.00 SALC. 1.000 FREE JET DIAMETER (IN) 40.00	02-27-78 TAPE NG. N299 JALPHA SB59 TAMB	CAI ANECH CH AENO, RUG. AURIEG FATS ES. SOUG NELFUR 64.	. TEST POINT ACGUSTIC RANGE 10 7403 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 91.44	6	41

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-FMODL	M INLET, DEGREES	136. 140. 1	82.9 81.5 94.2 92 85.4 92.4 94.6 99	92.4 94.5	92.5 93.5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	92.9 92.0	93.6 92.0	92.8 91.8	93.4 90.3	92.6 69.4	3.7.0 2.7.0 2.7.0 2.7.0 2.7.0 3.7.0 3.7.0	88.8	68.3 51.6	85.0 78.2 7.6.2	76.3 67.6	67.1 55.8	53,2 41,3	32.7.18	ř						104.2 103.8	110.0 107.2	FREQUENCY SHIFT	N299 IALPHA SB ADH125 PAMB 29	\$1 ZE \$0 CH (1400.00 SQ	
DENTIFICATION - FJ-3	ANGLES MEASURED FROM		75.7 75.9 76.6 92 76.6 76.9 77.8 85	1 77.9 80.0	7 76.9 81.2	6 81.2 83.4	2 82.0 84.2	.2 82.3 84.4	.0 82.9 85.0 53 - 85.0	2 63.6 85.4	.5 84.8 86.3	0 85.3 65.0	2 87.9 87.5	.9 86.5 86.4	.6 85.4 84.6 80 8 80 0	7 78.6 76.1	8 71.4 69.4	.9 61.1 59.2	.7 46.0 41.8	0.01 4.22 0.						97.9 96.4 97.2 101.5 08.1 105.9 106.0 106.5	2 105.9 106.0	ER RATIO 7.640	TAPE NG. N29 AERG. RDG. ADH	SL 9032.2	
01		0. 70. 80.	72.6 73.5 74.6 7	4 75.7 76.5	6 76.9 77.3	8 79.3 80.2	.4 79.1 80.8	.9 79.0 79.6	.6 60.1 83 0 80.2	7 06.4 64.2	.7 87.6 87.2	3 67.3 60.3 3 87.1 88.3	.9 87.2 88.2	.6 86.2 87.7	.1 56.1 57.9 0 82.7 85.0	2 77.1 81.6	.8 71.8 73.2	.3 61.8 66.5	.4 44.7 48.2 7 19.2 21.8	. 10.3 £1.0						95.7 96.5 97.3 9 104.5 106.0 107.5 10	05.2 106.5 108.8 1	DIAMETE	TEST DATE 02-27-78 LOCATION C41 ANECH CH	ACGUSTIC RANGE 731.5 H (2400.0 FT)	
		.	63 71.4 73.1	72.2 73.	72.5 74.	76.1 76.	74.9 78.	77.4 76.	76.7 77.	85.8 86.	83.7 85.		81.2 84.	78.5 82.	75.0 79.	64.0 72.	55.7 62.	41.5 49.	20.1 31.	10000	12500	20000	25000	31500 40000 50000 63000	80000	CASPL 92.0 93.6 PNL 98.9 101.6	100.4 102.7		TEST	MODEL TEST POINT 7400 7403	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SQUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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		ž		150.0 151.2 153.0	154.2	166.0 166.0	155.4	154.0	153.2 152.9	152. 1 151. 7	151.6 150.5	149.3	148.7 148.6 148.2	146.1	147.2	TAMB 32	4	
40.0 FT. ARC X74060 X01500	9			900	9 6	20.9 115.0 21.2 113.4	100	5 136	101		96.	830	95.7 91.5 90.6 85.6 85.0 81.4		150 E	130.3 125.6 SB59	1N) - MOC	
), DAY, 88 4 FJ-150-FMCDL FJB150-AMCDL	DEGREES			0-1	120.6	- 12 12	123.6	120.7	117.4	115.3	110.2	N O	.7 101.0 .1 €?.1 .7 92.6	86.5	7 76.3	132.3		
STD.	FROM INLET,			101.3 106 102.7 110 104.2 114	00	110.7 117	0 10	40		.0	110.9 114	. 8 106	101.7 102 98.8 101 93.5 95	200	76.9	N299	ADHIEV 7 SO CH (
RCENT R. - MODEL BACKO	Œ		1	0 0 0	70		ო თ		10 CI	8 6		N 60	0	0	9 0	6.2 119.1 TAPE NO.	ARC 154.	
EG. F., 70 PE Dentification	ANGLES			0 0 0 0 4 0 0 0 0	96.5	9 01 0	102.5	103.2	104.6	104.7 1	105.6 1	103.2		95.1	72.0	6.0	RANGE 0.0 FT)	
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		FREG 50 63	100 125 160 200	ĺ	1								25000 31500	- 1		CASPL 1	MODEL. 7400	643

FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, 58 40.0 FT

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																	,	-11-12-												
										0	RIG F		IA IOI	L I	PA	GE AL	18 TT							•					M/SEC (304.0 FPS)	•
	SE												,													9.	63.80	<u> </u>	92.66 M	
	FOR BACKGROUND NOISE						146.2	2 5	152	153	9 19 1	154	10	153	152	152	<u> </u>	150	150.0	149	148.4	147	145	4.00	165.7	TAMB	RELHUM			
	ACKOROL	X74070 X01300		. 160.			116.1	15.2	113	111	6 107.3		5	103	100	88	6	96	9 9	85	8 6	9	75	9	122.1		900		- MODEL	
	FOR B	X X X	ES	150			116.		2	116.		2 2	1.4	=======================================	- 1	7 107.8				1			78.6		9 127.9	SB	29		SQ [N]	
	CORRECTED	J-300-FMGDL JB300-FMGDL	, DEGREE	140				- io	6	0 0	120.2			_ =		96	3	6	 0 10		2 100 2 8	0 91.7	92	2 74.	1 130.9	IALPH	PAMB	27	23.99	
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	PERCENT R P	'	MEASURED	100. 110			6		~			105	2 105	106	5 107	701 6	0 107	•	- -	0	4 1	4	4	Φ.	.0 118	APE NO				
	SOUND	CATION	ANGLES	90. 10			-	4 4	80	(i) (c	9	0	0	4 K	9	90	6	e -		5	1.6 93	- (3 4	ဖ	1.9 115	TAPE	AER	<u>u</u>	FT ARC	
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E ex	ATION - FJ-300-FMODL	ANGLES MEASURED FROM INLET,	0, 110, 120, 130	•			0.83.8	2 94.3 100.3 1	0 96.5 104.9	1 100.6 108.6 1	2 101,5 109.1	.1 103.0 109.5 1 .6 103.7 110.4 1	3 104.4 110.5	6 106.3 111.6 1	.8 107.0 112.3 1	7 107.6 112.5 1 8 108.1 113.1 1	7 108.3 111.6	7 106.2 109.7	1 105.3 107.7	7 98.7 102.8 1	1 96.6 99.0 1	ο'n	6 77.4 86.0	.8 117.8 122.9 1	JET VELOCITY (FT/SEC) FREE JET DIAMETER (IN)	TAPE NO. N299		IC 154.7 SQ CH (
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 69.0 DEG. F., 70 PERCENT R.H. STD. CAY, SB. 40.0 FT. ARC	CATION - FJ-160-FMODL	ANGLES MEASURED FROM INLET, DEGREES	70. 60. 90, 100. 110. 120. 130. 140. 150. 160. PWL		6, 40 6, 60 80, 60	.4 94.7 96.2 96.6 97.6 102.6 110.7 114.3 116.1 116.1	./ 84.7 86.5 87.0 88.2 105.1 114.6 116.1 120.0 116.7 153. .5 95.6 97.3 96.5 100.1 106.3 116.9 120.5 121.7 119.0 155	.6 97.2 98.7 99.3 103.0 108.8 118.2 122.2 121.8 119.5 1	.4 98.3 100.0 101.1 104.3 110.7 120.3 122.9 122.6 118.9 157 0 101 1 102 1 102 4 105 6 111 5 120 7 123 1 121 7 116 8 457	.3 105.5 104.4 104.0 106.4 112.1 120.9 124.0 120.6 113.7 1	6 105.4 105.3 105.1 107.7 112.5 121.0 123.1 117.9 111.0 1	.0 110.0 106.2 104.7 107.9 113.5 121.9 120.9 116.5 109.5 1	.1 109.2 111.7 110.5 110.2 113.9 120.2 118.0 113.0 106.4 1	4 107.3 108.4 110.3 110.9 113.6 118.8 117.0 111.0 104.6 1	. 0 107.3 108.0 108.4 111.2 113.0 110.4 110.8 108.8 104.0 104.0 106.9 106.0 108.2 111.1 113.8 117.5 114.9 108.0 103.5 1	1 106.9 107.9 108.0 110.8 113.5 116.5 113.8 107.0 102.5 1	. 9 106.8 107.5 106.6 108.5 110.6 114.4 110.3 104.6 101.6 1	1 106.7 107.1 105.7 107.4 109.2 113.4 108.7 103.4 100.1 1	.3 105.8 101.3 99. .6 102.8 97.7 94.	3 99.0 98.9 97.6 97.9 100.4 105.5 98.6 93.1 90.9 1	.6 90,8 90.3 87.6 86.6 91.4 93.9 88.2 82.8 79.1 1	.8 84.3 83.3 82.4 80.5 87.2 88.7 81.7 76.5 72.8 1 6 80 5 80 4 74 8 75 3 83 8 8 6 77 0 66 5 62 9 1	6 119.3 119.9 119.2 120.9 124.6 131.5 132.3 130.7 127.		E SCALE FACTOR FREE JET VELOCITY (FT/SEC) 148.00 REFRACTION CORRECTION - YES CALC. 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES	02-27-78 TAPE NG. N299 IALPHA SB59 TAMB 32.00 C41 ANECH CH AERG. RDG. ADH128 PAMB 29.5700 RELHUM 63.00	ACCUSTIC RANGE 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 45.11 M/SEC (148.0	
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1.80 85.0 95.4 86.1 86.6 6.6 80.8 88.5 89.9 89.5	.0 91.7 95.6 95.3 92.2 2 84.6 91.8 89.6 85.9	86.9 90.1 151.7 81.6 84.3 150.4	
0.5 82.5 81.2 81.5 81.4	0 78.5 87.0 86.1 82.4	.1 77.6 1	
1.6 73.4 77.3 75.7 75.9	3.6 72.6 77.2 76.3 72.6	65.2 67.8 148.3	
121.4 121.1 120.7 120.3 120.4 11	9.0 120.2 124.7 130.6 132.2	129.7 126.9 168.5	
MODEL/FULL SIZE SCALE FACTOR FREE INPUT 1.000 CALC. 1.000	: JET VELGCITY (FT/SEC) 327.00 Free Jet Diameter (IN) 48.00	TURBULANCE CORRECTION - YES	
TEST DATE 02-27-78 LGCATION C41 ANECH CH A	TAPE NO. N299 IALPHA AERO. RDG. ADH129 PAMB	5859 TAMB 32.00 29.5700 RELHUM 61.50	
TEST POINT ACQUSTIC RANGE 7411 12.2 M (40.0 FT)	51ZE ARC 154.7 SQ CM (23.99 SQ	FREE-JET SPEED 1 IN) - MODEL 89.67 M/SEC (327.0	ED 7.0 FPS)
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					ORIGI OF P	NAL PA OOR QU	GE IS					FREE-JET SPEED 7 M/SEC (327.0 FPS)	
			0000 0000 0000 0000	87.8 86.8 84.6 83.3	78.8 173.2 1 77.4 172.7 5 75.2 172.6 1 73.6 172.3 1 73.6 171.8 69.6 171.3	65.9	169 169 167 167		7 86.1 186.0	6	59 TAMB 32.00 .5700 RELHUM 61.50	- FULL 89.67	
-FMGDL X74111	INLET, DEGREES	140,	94,7,96,4,96 96,4,96,4,96 98,1,100,3,99 98,7,101,1,97	99.0 102.0 95 99.0 101.5 93 99.9 99.3 91 99.9 96.9 89	97.2 94.3 65.9 96.4 93.4 94.1 92.7 92.1 82.6 94.4 90.4 80.4 80.4 90.7 90.7 90.7	90.0 83.6 74 86.0 79.6 70 81.0 74.8 64 77.3 68.2 65	54.5 43.1 23 34.5 19.0 6.2		109.2	113.7 112.8 104. FREQUENCY SHIFT	IALPHA SB	\$12E CM (1400.00 SQ IN)	
SATION - FJ-30	MEASURED FROM	0. 110.	.0 78.0 64 .4 79.9 87 .7 81.9 90 .9 83.5 91	6 65.7 92 9 66.7 92 9 66.7 92 9 67.8 93	NO - 10 N	.3 86.6 88 .6 85.4 85 .6 82.0 83	3 59.2 59. 4 41.3 44.		60 d	.4 107.6 111.0 5 7.640	TAPE NG. N299 Aerg. RDG. Adh129	sL 9032.2 SQ	
IDENTI	ANGLES	90.	9 76.5 77. 9 77.1 78. 0 77.9 79. 5 79.5 61.	5 91.6 92.4 85.3 85.7 92.3 88.6 83.3 93.3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 87.6 88. 3 86.6 87. 5 86.6 86.	9 67.4 66. 3 49.1 49. 8 22.6 23.		8.000.8	07.8 110.8 110.6 DIAMETER	02-27-78 C41 ANECH CH	ACCUSTIC RANGE 1.5 M (2400,0 FT)	
		40. 50. 60.	5 74.8 76. 5 76.1 77. 8 76.9 78.	77.4 79 8 82.5 88 3 93.6 94.		4 78 2 81. 1 74 2 77.	6 51.1 59. 9 33.6 43. 0.7 13.		98.6	0.00	TEST DATE LOCATION	TEST POINT 73:	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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اغدا	LET, DEGREES 130, 140, 150, 160. PU		4.2 109.3 113.5 112.9 1	.0 110.6 115.1 114.2 .8 113.7 116.6 114.3 .4 115.8 117.4 114.6	116.4 118.1 115.3 115.5 117.5 114.9	115.3 115.7 112 115.4 114.9 111	110.4 106.4 148 109.2 105.6 148 107.4 104.9 147	104.7 104.1 102.6 146 102.1 102.2 100.7 146 99.0 99.1 97.6 146	1 92.7 90.3 89.6 144 6 87.6 85.1 85.0 144 6 82.2 80.0 79.2 142 8 75.9 74.7 73.1 141 3 72.6 68.4 67.1 142 0 126.5 127.7 125.0 162	IALPHA SB59 TAMB PAMB 29.6320 RELHUM	SIZE HODEL.	
RCENT R.H. STD - MODEL BACKGROUND	MEASURED FROM IN 00. 110. 120.		94.5 95.6 99.8 10	96.0 101.4 1 96.8 103.0 1 97.8 104.1 1	.1 100.5 107.5 .2 101.4 108.1 .1 102.7 107.9	. 6 103.4 109.0 . 6 103.4 109.3 . 5 103.6 109.3	6 103.5 108.1 5 103.4 107.8 3 103.1 107.3	102.1 103.8 100.9 101.8 98.3 98.8	2 91.0 92.4 1 86.1 97.7 7 79.4 83.6 8 73.1 78.9 4 67.3 72.9	TAPE NG. N294 AERG. RDG. ADH068	ARC 154.7 SQ CM	
59.0 DEG. F. ZO PE	ANGLES 70. 60. 90. 10		8 8 8 90.0 92.1	90.2 91.6 89.3 90.9 91.1 92.7	92.5 87.1 85.2 94.0 94.6 96.2 97.4 97.2 97.8 97.2 98.6 100.7	96.7 97.3 98.4 99.6 99.6 99.6 101.6 100.0 100.6	103.2 102.3 1 102.4 102.7 1 161.7 102.3 1	100.6 102. 100.1 102. 97.2 101.	92.2 92.8 92.8 86.5 90.8 90.8 90.7 73.9 74.1 74.6 69.2 68.2 69.1 112.2 112.8 113.	02-20-78 C41 ANECH CH	ACGUSTIC RANGE 12.2 M (40.0 FT)	
	40. 50. 60.		69 5 69 1.1 67	85.6 88.7 87.2 90.0 88.3 90.3	93.2 92.7 94. 93.5 97.1 98. 93.9 97.2 97.	98.0 96.4 96. 100.7 100.5 99. 102.3 101.9 100. 104.0 104.1 102.	103.3 103.9 103. 101.1 102.9 103. 100.1 101.9 102. 99.9 102.2 101.	97.5 101.3 101. 95.0 100.1 100. 93.5 98.2 99. 88.5 95.3 95.	85.6 87.3 90. 80.1 83.0 85. 73.1 75.9 77. 62.0 63.2 66.	TEST DATE LOCATION	TEST POINT 0 7501	
	FREG	8 8 8 5	125 200 200 200 200 200	300 200 200 200	630 1000 1250	2500 2500 3150	\$300 \$300 \$300	12500 16000 20000	31500 31500 40000 50000 60000		MØDEL 7500	65

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FJ-ZER	SURED FROM INLET,	120,					8 5	103.0	100	108.1	-	109.0	109	109.3	- 1	107.8		101.8	86	92.4	87	83.6 78.9	72.5	119.8	ITY (JET DIAMETER	N294	ADH068		. 7 Sa		
Z	SURED	110.					93.0	96.9	97.8	100.5		103.4	103.4	103.6	103.5	103.4	60.0	100.9	98.3	93.0	86.1	79.4	67.3	114.8	VELOC		NO.			154.7		
IDENTIFICATI	ANGLES MEA	100.					2 2 5 5 5 5 5 5 5 5 5	95.1		1 68	5	100.7 8 .7	1 .	<u>5</u>	a	102.00		99.3		6 6 6 6		81.7 75.8		113.1	E JET		TAPE	AERO.		ARC		
DENTI	ANGL	8					92.1	4 .	94.3 95.7	96.2 97.8	100.7	99.1		9.001	102.1	103.3		101.8		0.00 0.00	٠.	83.1 74.5	- 4	113.2	FREE		1	I	A NOR	40.0 FT)		
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59.0 DEG. F. 70 PERCENT R.H. STD. DAY. SB. 40.0 FT

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL.

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																	,							•				CORRECTION - YES CORRECTION - YES	29.30 43.00	FREE-JET SPEED.
			Ę				000	41.5		43.7	44.1	43.6	43.6	44.1	45.3	45.9	48.3	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	47.9	46.3	47.00 0.00	48.7	47.2	46.5	64.7	42.9	160.3		TAMB	117
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						OR OF	IGINAL POOR	PAGE	18 1TY					FREE-JET SPEED MOSEC (306.0 FPS)
FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL	IDENTIFICATION - FJ-400-FMODL X750	ANGLES MEASURED FRCM INLET, DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150.	66,7 67.8 68.5 68.1 69.1 70.4 69.8 71.0 78.0 84.6 97,3 86.7 78.9 181 67.7 69.5 69.6 69.0 70.0 71.5 71.2 72.8 80.0 84.9 97.3 85.8 77.7 161 68.6 69.2 70.6 70.3 74.5 72.5 72.0 74.2 82.4 86.1 88.6 85.1 77.3 162 70.0 70.6 71.1 71.4 72.8 73.7 75.8 83.5 86.8 87.5 83.0 77.7 161	71.7 70.5 72.8 72.6 72.9 75.0 74.9 76.2 83.5 86.0 87.4 80.8 76.2 161 72.1 71.5 73.7 72.6 74.6 76.1 75.2 77.5 84.7 86.2 86.4 80.0 75.6 161 72.2 74.2 75.4 74.5 74.7 76.3 75.9 78.2 85.0 86.7 85.5 77.9 74.2 161 74.0 73.0 73.7 73.8 74.3 76.0 75.5 78.5 85.4 86.6 85.4 78.1 75.1 161	79.5 79.8 78.8 75.8 77.7 77.7 77.3 79.0 86.5 86.1 85.1 79.2 75.5 162 81.2 81.3 80.5 80.8 80.1 78.2 79.5 85.9 85.7 84.2 81.9 82.1 81.2 79.1 79.6 85.6 84.7 82.1 76.5 72.6 164 83.8 84.7 86.7 84.5 85.3 83.7 80.2 80.5 85.9 84.5 82.1 76.5 73.1 166	0 81.0 82.3 84.5 86.0 84.7 85.8 82.0 81.0 85.2 83.7 80.3 74.7 71.5 185.7 0 80.6 83.0 83.5 83.4 84.2 82.1 81.2 85.1 83.1 78.8 75.0 39.9 165.6 0 78.8 81.4 82.9 82.9 84.2 84.3 80.8 81.7 83.3 81.6 77.2 73.0 68.3 165.6 0 77.1 80.6 82.6 82.6 83.0 82.9 80.5 80.8 82.8 80.9 74.9 70.3 65.5 165.9	74.2 78,4 60.3 80.7 83.0 83.5 79.5 79.9 78.1 74.7 68.2 64.0 53.6 165 70.6 75.5 78.6 79.7 82.4 82.3 76.4 75.0 75.6 70.1 63.7 58.7 53.1 166 64.6 72.2 74.5 76.2 78.2 78.4 72.4 69.5 73.1 69.4 62.1 53.0 42.3 166 75.4 62.5 67.5 68.7 69.4 69.5 73.1 69.4 62.1 53.0 42.3 166	40.9 48.0 56.0 60.1 63.2 62.9 55.6 52.8 52.9 43.0 33.4 18.6 164 20.4 31.0 35.9 44.4 45.1 45.6 40.9 35.2 38.7 24.3 12.1 16.0 17.8 17.6 11.0 12.4 16.0 17.8 19.1 17.5 11.0 12.4 16.0 17.8 19.1 17.5 11.0 12.4 16.0 17.8 18.1 17.5 11.0 12.4 16.0 17.8 18.1 17.5 11.0 12.4 17.8 18.1 17.5 11.0 12.4 17.8 18.1 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.4 17.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12.5 11.0 12		00 00 00	10 11 91.2 92.5 \$3.5 \$2.9 \$3.6 \$3.7 \$0.9 \$1.4 \$6.5 \$7.3 \$7.2 \$3.1 \$7.2 177.9 11 98.0 \$9.9 101.7 102.1 103.8 103.9 100.1 100.4 103.4 102.4 100.0 \$4.5 \$9.6 17 98.0 \$9.9 102.5 102.7 105.1 105.0 100.1 100.4 104.1 103.7 101.3 \$5.6 \$0.8 10 98.0 \$9.9 102.5 102.7 105.1 105.0 100.1 100.4 104.1 103.7 101.3 \$5.6 \$0.8	TAPE NG. N299 IALPHA SB5 H CH AERG. RDG. ADH997 PAMB 29.	TEST POINT ACCUSTIC RANGE 7502 731.5 8 4 2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 117.65
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPCLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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83.7 64.6 86.9 89.2 89.6 97.2 98.0 97.7 97.5 92.1 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 59.2 93.7	83.7 84.8 85.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 96.3 96.1 96.2 101.6 100.6 59.2 92.5 93.7 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE NO. N294 IALPHA 8559 TAPE 24.80 ATION C41 ANECH CH AERO. RDG. ADHOGE PARE 29.3600 RELHUM 39.00 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE AC	184.7 83.7 64.6 66.9 68.2 68.0 82.6 87.2 88.0 87.7 87.5 82.1 175.6 89.1 80.9 84.0 96.3 86.1 98.4 102.2 101.8 100.6 58.2 82.5 80.1 81.5 86.9 96.7 96.9 102.7 101.8 100.6 59.2 92.7 DATE 02-21-78 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE 7.31.5 M (2400.0 FT) SL 8032.2 80 CM (1400.00 SQ IN) - FULL 0. M/SEC (0.	83.7 84.8 86.9 89.2 89.8 92.6 97.2 88.0 97.7 97.5 92.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1 175.6 89.1
83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 \$9.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 99.2 93.7	83.7 64.6 66.9 69.2 69.0 82.6 87.2 96.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.4 102.7 101.8 101.6 101.6 89.2 93.7 DATE 02-21-78 ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTI	83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 99.2 93.7 DATE 02-21-78 TAPE ND N294 IALPHA 8859 TAMB 24.80 ACOUSTIC RANGE ACOUSTIC RANGE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE BY SEC. 175.6 FREGUENCY SHIFT -9 FREE-JET SPEED FREE-JET SPEED FREE-JET SPEED FREE-JET SPEED ACOUSTIC RANGE BY SEC. 10.0 0. M/SEC (0.	83.7 64.6 66.9 86.2 85.6 97.2 96.0 97.7 97.5 92.1 175.6 89.1 90.9 84.0 96.3 96.1 96.4 102.2 101.8 100.6 \$92.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 89.2 92.5 DATE 02-21-70 TAPE NO. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD6. ADHO96 PAPB 29.3600 RELHUM 39.00 731.5 M (2400.0 FT) SL 8032.2 SG CM (1400.00 SG IN) - FULL 0. M/SEC (0.
83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175. 89.1 90.9 84.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 99.2 93.7	#3.7 64.6 66.9 68.2 69.6 97.2 98.0 97.7 97.5 92.1 175.6 #8.1 90.9 84.0 96.2 69.6 97.2 101.8 100.6 59.2 92.5 #8.1 90.9 84.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 #8.1 90.9 84.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 #8.2 102.2 1.7 101.8 102.7 101.8 101.6 101.6 59.2 93.7 ### DATE 02-21-76 ### TAPE NO. NZ94 IALPHA 8859 TAMB 24.80 ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE ### ACOUSTIC RANGE #	83.7 84.8 86.9 88.2 88.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 82.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 59.2 92.5 DIAMETER RATIG 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE NO. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERG. RD9. ADHO96 PAMB 29.3600 RELHUM 39.00 ACCUSTIC RANGE ACCUSTIC RANGE S1ZE ACCUSTIC RANGE S1ZE ACCUSTIC RANGE O. M/SEC (0.	83.7 64.6 86.9 69.2 89.6 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 \$9.2 92.5 90.1 91.5 95.3 96.9 96.7 56.9 102.7 101.8 101.6 99.2 93.7 DIAMETER RATIO 7,640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RDG. ADHO96 PAMB 26.3600 RELHMH 39.00 ACCUSTIC RANGE S12E 731.5 H (2400.0 FT) SL \$032.2 SG CH (1400.00 SG IN) - FULL 0. H/SEC (0.
83.7 64.6 66.9 69.2 69.6 92.6 97.2 98.0 97.7 97.5 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 99.2 93.7	#53.7 64.6 66.9 69.2 69.6 92.6 97.2 98.0 97.7 97.5 92.1 175.6 #99.1 90.9 94.0 96.3 96.1 98.4 102.2 101.6 100.6 \$9.2 92.5 #90.1 91.5 96.3 96.1 98.4 102.2 101.6 101.6 69.2 92.5 #90.1 91.5 96.3 96.7 98.9 102.7 101.6 101.6 69.2 92.7 ### DATE 02-21-78 ### DATE 02-21-78 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S12E ACCUSTIC RANGE ### S032.2 SG CH (1400.00 SG IN) - FULL 0. H/SEC (0.	83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 \$9.2 92.5 80.1 91.5 86.3 96.7 98.9 102.7 101.8 101.6 59.2 92.5 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE NO. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD9. ADHO96 PAMB 29.3600 RELHUM 39.00 ACOUSTIC RANGE S12E 731.5 H (2400.0 FT) SL \$032.2 SQ CH (1400.00 SQ IN) - FULL 0. H/SEC (0.	83.7 84.6 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 99.2 92.5 80.1 91.5 96.3 96.9 96.7 96.9 102.7 101.8 101.6 99.2 92.5 DATE 02-21-79 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD9. ADHO96 PAMB 29.3600 RELHUM 39.00 ACOUSTIC RANGE 731.5 H (2400.0 FT) SL 8032.2 SG CH (1400.00 SG IN) - FULL 0. M/SEC (0.
83.7 64.6 66.9 69.2 69.6 92.6 97.2 96.0 97.7 97.5 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 99.2 93.7	83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 87.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 96.3 96.9 96.7 102.2 101.8 100.6 59.2 92.5 DIAMETER RATID 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8559 TAMB 24.00 ATION C41 ANECH CH AERO. RD9. ADH096 PAMB 29.3600 RELHUH 39.00 FREE-JET SPEED 731.5 H (2400.0 FT) SL 8032.2 SQ CH (1400.00 SQ IN) - FULL 0. M/SEC (0.	83.7 64.6 86.9 69.2 89.6 92.6 97.2 96.0 97.7 97.6 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 96.3 96.3 96.7 98.5 102.7 101.8 101.6 59.2 92.5 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE SIZE SIZE SIZE SIZE FILL 0. H/SEC (0.	83.7 84.8 66.9 69.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 96.9 96.3 96.7 98.9 102.7 101.6 101.6 59.2 93.7 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-70 TAPE NO. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD0. ADHO96 PAMB 29.3600 RELHUM 39.00 ACCOUSTIC RANGE 731.5 M (2400.0 FT) SL 8032.2 SG CM (1400.00 SG IN) - FULL 0. M/SEC (0.
83.7 64.6 66.9 69.2 69.6 92.6 97.2 98.0 97.7 97.5 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 59.2 93.7	83.7 84.8 86.9 69.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 80.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.6 90.1 91.6 96.3 96.7 96.9 102.7 101.8 101.6 99.2 92.5 DATE 02-21-76 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 AMECH CH AERO. RD0. ADHOGE PAMB 29.3600 RELHUM 39.00 ACOUSTIC RANGE S12.2 SG CH (1400.00 SG IN) - FULL 0. M/SEC (0.	83.7 84.6 86.9 69.2 89.6 92.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 80.1 81.5 95.3 96.9 96.7 96.9 102.7 101.8 101.6 99.2 93.7 DATE 02-21-78 TAPE NC. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD9. ADHO96 PAMB 29.3600 RELHUM 39.00 ACOUSTIC RANGE 731.5 H (2400.0 FT) SL 8032.2 SG CM (1400.00 SG IN) - FULL 0. M/SEC (0.	83.7 84.8 86.9 69.2 89.6 92.6 97.2 98.0 97.7 97.8 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 \$9.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 69.2 93.7 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERG. RDG. ADHO96 PAMS 29.3600 RELHUM 38.00 ACCOUSTIC RANGE 731.5 M (2400.0 FT) SL \$032.2 SQ CM (1400.00 SQ IN) - FULL 0. M/SEC (0.
83.7 64.6 66.9 69.2 69.6 92.6 97.2 98.0 97.7 97.5 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 59.2 93.7	83.7 84.8 85.2 85.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 80.1 91.5 95.3 96.9 96.7 96.9 102.7 101.6 101.6 59.2 92.5 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERO. RD9. ADH096 PAMB 29.3600 RELHUM 39.00 ACCOUSTIC RANGE 731.5 H (2400.0 FT) SL \$032.2 50 CM (1400.00 50 IN) - FULL 0. H/SEC (0.	83.7 84.8 86.9 89.2 89.8 92.6 97.2 96.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 96.9 96.7 98.9 102.7 101.8 101.6 59.2 93.7 DATE 02-21-76 TAPE NO. N294 IALPHA 8559 TAMB 24.80 ATION C41 ANECH CH AERG. RDG. ADH096 PAMS 29.3600 RELHUM 39.00 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC	83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.8 92.1 175.6 89.1 90.9 84.0 96.3 86.1 98.4 102.2 101.8 100.6 89.2 82.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 100.6 89.2 92.5 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE 731.5 H (2400.0 FT) SL 8032.2 SG CM (1400.00 SG IN) - FULL 0. M/SEC (0.
83.7 84.6 86.9 89.2 89.6 92.6 97.2 98.0 97.7 97.6 92.1 175. 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 59.2 93.7	83.7 84.8 86.9 89.2 89.8 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 \$9.2 92.5 90.1 91.5 96.3 96.9 96.7 98.9 102.7 101.8 101.6 69.2 92.5 DIAMETER RATIO 7.640 FREQUENCY SHIFT -9 DATE 02-21-78 TAPE ND. N294 IALPHA 8859 TAMB 24.80 ATION C41 ANECH CH AERG. RDG. ADHOG6 PAMB 29.3600 RELHUM 39.00 ACDUSTIC RANGE ACDUSTIC RANGE ACDUSTIC RANGE ACDUSTIC RANGE ACTURE 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	83.7 84.8 86.9 89.2 89.6 97.2 98.0 97.7 97.5 92.1 175.6 99.1 90.3 94.0 96.3 96.1 98.4 102.2 101.8 100.6 59.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 101.6 69.2 92.5 DATE 02-21-78 TAPE ND. N294 IALPHA SB59 TAMB 24.80 ATION C41 ANECH CH AERO. RD9. ADHO96 PAMB 29.3600 RELHUM 39.00 ACOUSTIC RANGE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE S1ZE ACOUSTIC RANGE ATION - FULL 0. M/SEC (0.	83.7 64.6 66.9 69.2 69.6 92.6 97.2 98.0 97.7 97.5 92.1 175.6 89.1 90.9 94.0 96.3 96.1 98.4 102.2 101.8 100.6 58.2 92.5 90.1 91.5 95.3 96.9 96.7 98.9 102.7 101.8 100.6 59.2 92.5 DATE 02-21-70 DATE 02-21-70 TAMB 24.00 TAMB 24.00 ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE S12E ACCUSTIC RANGE S12E ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC RANGE ACCUSTIC R
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC

													OF	RIG		IAL OR	F Q	PAG		IS TY					•				6	
												-								•								23.00 45.00	FREE-JET SPEED M/SEC (0, FPS)	
RE LEVELS			160. PM	69.4 151.4	_	64.7 151.6	2	63.6 151.7 62.1 151.2	60.9 151.3 50.0 150.8		53.7 149.5	_	148	6 148	0	1.9 151.2	146	143.3	141.6						76.5 163.7	75.4		TAMB	FULL 0.	
SOUND PRESSURE	X75051	DEGREES		75.6 74.6 75.9 73.7	72.4	70.6	70.4	69.4 68.1	70.7 67.4	63.0	61.7	58.9	57.7	56.1 51.0	₽.		Į								64.3 61.4	5	CY SHIFT -9	IALPHA \$859 PAMB 29.3720	SIZE 100,00 SQ IN) -	
KTRAPOLATEC STD. DAY,	FJ-ZER-FM3DL	INLET,		ო -	- 0	4 0	5.	ဝ ဖ	75.8 74.3	90	.6 70 50 A	6 67	2.	2 0 0	4 58	57.5 51.4 50.7 45.9	1 31	.4 10.							0.99	1	FREQUENCY	N294 1/	SQ CM (14	
SCALED, PERCEN	DENTIFICATION - F.	ANGLES MEASURED FROM	ċ	1 .		-1 4	9	N -	70.7 72.4	•	90	-	5 68.	5 00	3 61	0 1	0 38	40	,						61.5 63.2	6 68.7	RATIO 7.640	TAPE NG. I	SL 9 032.2	
TRANSFORMED,	IDENTI	ANGL	.00	0 66. 1 67	.7 69.	69 69	70.	- 70. 68.	68.0 69.5	8	68.	67.	5 67.	96	9 63.	63.	5 44.	4			J				79.1 80.9	89	DIAMETER R	-78 NECH CH	ACGUSTIC RANGE	
FLIGHT TI			6 0. 70.	62.	. N	8 65	9 66.	8 66.	66.4 66.9	8	64.	89	62.	200	8 57.	98	37.	<u>.</u>			E				76.1 77.2	210		DATE 02-2 ATION C41	ACOU 731.5 M	
			40. 50.	60.	62.	88	66.	4 - 60.	58.6 65.9	92.	60	90	7 58.	533	1 51.	62.	6 28	•			-		•		7.			TEST	TEST POINT 7505	
	47 A		FREG	20 6	3 5	100	160	70 70 70 70 70 70 70 70 70 70 70 70 70 7	316		830	1000	1250	1600	2500	3150	2000	9000 9000 9000	10000	12500 16000	20000	31500		80000		PNL			MODE 75	669

									01	RIC F	O	OF		PA	GI		8 Y	•									00.	30	FREE-JET SPEED 117.96 M/SEC (367.0 FPS)	etal y
TATOM CHIDGOX	40.0 FT, ARC	090		160.	PVL			0	90.7 125.9	86.7 127.2	1			, ,				75.3 126.2	_	-		Į-			43.8 124.0 35.8 126.8	97.5 140.9	TAMB 39	RELHUM 54	- MODEL 117.96	
CARRECTED FOR BAC	DAY, SB 40.0 F	FJ-300-FMGDL X75060 FJB400-FMGDL X01400	INLET, DEGREES	130. 140. 150.				6.5 90.2	<u>ب</u> د	92.5	.3 92.2	90.0	.8 89.4 75.	.9 88.4 79.	.4 65.6 75.	.9 85.4 79.	0 04.2 77.	95.3	8 80 8 78	4 78.9 74.	.4 77.0 73. .9 74.5 71.	.5 70.5 67.	60 K	4 57.1 52.	51.9 50.0 46.2 15.6 44.6 38.3	02.4 101.1 97.6	I ALPHA SB	Į	SIZE (23.99 SQ (N)	
FASILME I FVELS	ENT R.H. STD.	- MODEL FJ- BACKGROUND FJE	1	. 110. 120.				7 78.0 80.0	7 78.3 82.1	7 81.3 84.3	9 82.3 86.0	2 85.0 88.7	4 86.2 88.6	86.8 89.6	3 67.1 69.0	1 87.6 89.5	2 67.0 88.2 87.3 88.0	86.2 87.5	7 85.6 85.6	83.4 83.9	8 79.3 79.9	9 75.3 77.3	4 72.8 75.1 57 R 69 7	59.8 63.9		4 98.0 100.0 102	E NG. N299	RDG.	164.7 SQ CM	
MODEL SOLD	EG. F.,	IDENTIFICATION	ANGLES M	60. 90. 100				7 74.1 74.	9 76.3 76.	2 78.1 78.	0 79.2 79.	6 65 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63.	3 82.2 83.	0 82.7 83.	5 83.1 84.	3 83.7 85.	63.3 64.	2 83.55 83.55 83.60	7 83.2 82	1 61.1 61.	.7 81.3 80. .2 80.4 77.	.1 78.7 74.	.8 74.8 73.	63.3 62.	.0 54.6 56. .3 46.8 48.	98.8 94.8 95.		ECH CH AERO	TIC RANGE 40.0 FT) ARC	
UNTRANSFORMED	59.0 DEG			50. 60. 70.				7 70.9 72.	3 73 8 74	.8 76.7 74.	5 76.9 75.	6 77 5 77	9 78.4 78.	.8 77.9 78.	2 79.5 79.	3 79.5 81.	2 78.7 79.2	20.2	2 77.9 78.	5 76.4 77.	6 74.1 75.	0 73.8	4 ER 9 67	6 57.8	0 45.3 48.	.9 40.6 91.3	TEST DATE 02-27-	3	INT ACCUSTIC	
)				40.	FRED GO	2 9	100 125 160 200	70.2	0, 7 0, 6 0, 4	72.0	73.3	0 0 0 0 0	75.5	77.6 76.8	78.6	78.1	77.7	6350 76.4 77	75.3	73.4	68.7	69.8	69.0	54.6	40.7	CASPL 88.6 E8			MODEL TEST POINT 7500 7506	

				_	DENTI	DENTIFICATION	1	FJ-300-FMGDL	FMODE	X76060	90						
					ANGLES	ES MEAS	URED	FROM 11	INCET,	DEGREES	80						
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77,6	. O 1	77.0	76.4	76.5	76.9	77.0	77.3	ď,	8.0	0.00	7.98	99.0	125.5				
8 8	۵ –	- 0					80.4		0	9 00		6 6 6 6 6 6	132.7			0	
93.		4		. 1			92.3		- 10	88.8		92.4	127.8			F	
6	.	٠ و				F-1	- W		.	G 0	-	92. 22. 32. 13.	128.3			P	
, c	. -	i 4					9	90.5	6.0	87.8		90.7	128.5			OC	
82	-	0					86.7	90.3	91.6	87.5		91.6	126.9			R	
4	4 (a i		_	_	_	87.3	- 6	80.00 4.00			90.0	129.			Q	
60 g	9 1	٠. ٥					88.2	90.00 80.00	G (0	86.9	8 8 8 8 8 8	980.7	20.00)U/	PA
9	4	-			.1 4		88.7	90.3	89.7			89.4	129.5			L	
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	6 4	Ď 4					€7.0 47.4		89.7	2. 00 0. 00 0. 00			20.0			Y	
94	0	9					85.0		84.8			85.5	128.7				
8.	- °		•				95.6	•	80.8	79.6	7 9 7 7	60.4 4.4	126.7				
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68	o, on	? 0					61.3		60. 80.	50.0	9 9 9 9		129.5				
59	8		• • !		7	1	55.3		54.9		61.9	•	128.7				
52,	9	4			-		48.9		43.1	44.9	42.1	47.1	131.1				
96.2	9.00	1.98	95.4	101.7	96.9	96.8	98.4	101.2	102.4	100.3	2.98	102.7	143.2	\			
MODEL/FULL INPUT 1.	800	ZE SCALI CALC.	Щ.	FACTOR .000	FREE	JET	VELOCI JET DI	ELOCITY (FT/ ET DIAMETER	(SEC)	387.00 48.00		REFRACTION TURBULANCE	ANCE	CORRECTION CORRECTION	- YES - YES		
	TEST DATE	1	02-27- C41 AN	7-78 ANECH CH		TAPE AERO. I		N299 ADH111		ALPHA	3859 29.3300	}	TAMB	39.00 54.60			
MODEL TEST	TEST POINT 7506	21	ACOUSTIC		RANGE 40.0 FT)	ARC	10.	7 50 CM	_	SI ZE 23.99 SG	2	- MODEL	-	FREE-JET	SPEED 387.0	FPS)	
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85.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-JOO-PHODL X30200 AMOLES HEASURED FROM INLET, DEGREES 60. 70. 80. 90. 100. 110. 120. 130. 140. 180. 160. FML AMOLES HEASURED FROM INLET, DEGREES 61. 60. 70. 80. 90. 100. 110. 120. 130. 140. 180. 160. FML 62. 70. 80. 90. 100. 110. 120. 130. 140. 180. 180. 180. 180. 180. 180. 180. 18)RI	IGIN PO	AV O(L R	PA QU	(GI	E 1	5													EO. . C FPS)	
MODEL 1 0 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	FLIGHT TRANSFORMED MODEL SOUND PRESSURE	O DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT.	ON - FJ-400-FMODL	MEASURED FROM INLET,	40. 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160,	100	125	85 1 85 0 84 8 85 0 83 5 84 2 84 6 88 6 95 4 99 6 102 7 101 4 136	85.1 85.9 84.8 85.0 85.0 86.7 84.7 85.3 92.3 101.8 105.3 107.0 103.0 140.	86.4 87.0 86.1 84.7 83.8 86.5 86.8 93.4 102.8 107.0 106.2 100.3 140. 87.7 87.6 87.0 85.9 91.2 87.7 87.7 88.5 95.6 104.5 108.0 106.0 99.7 141.	89.0 88.1 89.6 87.3 103.2 89.2 89.1 90.8 97.8 105.5 109.4 105.5 100.8 143.	92.6 91.9 92.6 69.6 69.7 92.1 92.3 94.4 100.6 105.8 109.0 103.3 101.8 142.	33.7 91.4 92.4 90.8 91.7 93.4 93.1 95.7 101.8 106.1 108.3 102.7 102.3 142.	92.5 93.9 94.2 92.8 92.5 94.0 94.2 96.6 102.2 106.5 106.9 102.6 101.6 142. 93.9 91.9 93.2 92.3 91.9 93.9 94.6 97.5 102.5 107.0 106.7 102.5 101.8 142.	93.1 93.1 93.4 92.1 93.3 94.9 95.8 98.2 103.9 106.5 106.4 103.4 102.5 142.	93.0 93.0 93.7 92.7 93.7 95.6 96.3 99.3 102.9 106.1 106.3 103.1 102.7 142. 93.8 93.4 93.6 93.5 94.0 96.2 87.0 99.5 103.7 106.5 106.0 102.3 102.2 143.	94.1 93.1 94.4 93.6 95.1 97.2 97.3 100.4 103.6 105.8 105.4 102.1 103.4 143	95.6 94.3 54.7 94.0 95.3 97.7 97.4 100.0 103.5 105.3 105.4 102.8 103.6 143 97.5 96.2 95.9 94.7 95.5 96.9 97.0 98.9 103.5 105.1 104.6 103.3 104.6 143	97.2 97.9 96.5 95.4 97.2 98.1 96.5 99.6 101.9 103.9 103.7 103.7 104.6 143	97.4 98.6 98.9 97.5 97.7 97.6 96.8 98.4 101.3 104.2 102.2 102.8 104.6 144 94.9 96.1 96.5 96.3 97.2 97.7 95.5 97.5 120.2 100.6 99.0 99.9 102.0 143	93.5 94.9 95.1 95.5 97.1 96.9 93.3 95.5 96.4 95.2 94.2 95.9 99.2 143.91.1 94.5 93.7 93.8 95.2 94.3 90.6 89.5 96.2 96.6 93.6 92.9 97.2 144	89.4 90.1 91.0 90.0 89.9 89.9 88.1 89.2 90.3 89.6 87.1 86.6 91.7 142	84.6 83.6 86.0 87.4 69.5 88.4 63.2 83.0 66.4 63.4 81.9 62.5 86.3 143. 82.2 81.1 82.7 83.1 81.3 81.2 78.5 76.8 82.4 77.9 77.0 78.3 81.5 142.	73.8 73.0 74.4 75.8 72.3 72.7 73.0 70.2 77.6 73.8 75.8 74.3 77.0 141.	106.9 107.0 107.2 106.4 108.7 108.3 107.7 110.1 114.3 117.9 119.3 116.7 115.6	SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 389.00 REFRACTION CORRECTION -	000 CALC, 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION -	03-16-78 TAPE NG. N300 IALPHA SB59 TAMB C41 ANECH CH AERO. RD9. ADH149 PAMB 29.5450 RELHUM	MODEL TEST POINT ACOUSTIC RANGE 6 3020 12.2 M (40.0 FT) ARC 110.1 SQ CM (17.07 SQ IN) - MODEL 118.57 M/SEC (389.6	

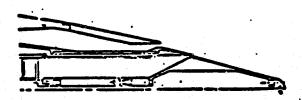
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																													8.8	FREE-JET 57 M/SEC (
			¥	60.8	162.1	61.8	51.8	61.8	62.1	62.5 62.5	62.3	62.5	62.8	- œ	63.1	1.	•	20.00		50.3 58.4					75.7	r .			TAMB 40 RELHUM 22	118.57
			160.	73.9 1	4	ဖ	7 -	74.6 10	~	၁ ဖ	8	N		- o	, NO	-		21.0		_ =					9	a.	98.9			FULL
	ις O	6	_	83.5		ا،	a 10		ار،	n m	10			o.c		6	o n (300	1						ю	94.3	6	FT -10	SB59 29.5450	· (N)
:	X30205	DEGREES	140.	87.7	89.1	88.5	87.7 86.1	85.7	95.1	84. 83.0	85.8	- 1				i	67.7	48.0	33.7	3.6					7.76	100.4	100.4	ES	IALPHA PAMB	S1 ZE (1400.00 SQ
		INLET,	130.	85.7 86.7	67.3	87.0	87.1	87.7	86.9	86.2	85.2	84.4	94.0	9 0 0 0 0 0	79.2	73.5	4.4) (1) (2) (3)	43.0	22.6					97.9	102.5	104.1	FREQUENCY		S CM (140
	FJ=400-FMCDL	FROM 1	120.	977.9	82.1	-1	8 63	84.3	85.4	84.7	84.3	83.9	83. 83.	8 7 7 8	80.6	76.8	76.4	0.00 4.00	52.7	36.7					93.4	101.9	102.7		N300 ADH149	2 50 0
	' Z	URED	110.	71.5	75.6	77.3	9 6	80.0	90.6	9 2 4 4 . 4	82.0	81.4	80.0	9 6	79.0	77.2	- ·	 	50.2	33.7			•		9	99.4	99.4	9.026	RDG.	9032.
	DENTIFICATIO	ANGLES MEAS	100.	71.2	73.0	-1			-1			-1		٠											0.06	98.1	98.6	RATIO	TAPE AERO.) SL
	IDENT	ANG		7.52		78	76	77.	77.	8	79.	79.		0 0 0	80	79.	2	. v	56.9	38.					0	9	100.	DIAMETER	. 5	C RANGE 2400.0 FT)
			0	74.6 86.6		4	6 6	4.	76.	9 9	77.	77.	77.	, ¢	79.	79.		- 6	56.	. 4 4					6	0.00	101	DIA	16-78 ANECH	ACOUSTIC 5 M (240
			. 70.	3 68.9 207	2 %	733	2 6	4.	74.	4 15	75.	75.	73	9 6	77.	77.	9.0) (2)	56.						80	0 97.9	98		- 2 2	ACC 731.5 M
			. 60	8 69.	74.	133	76.	10.	2	6 4	73	73	76.	9 6	76.	75.	9.9	5.6	52.	မ္တ ဗ					88	0 97.0	98		LEST DATE	
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ORIGINAL PAGE IS OF POOR QUALITY

6.1.8 Measured Acoustic Data for Model 7

 $R_r^0 = 0.853$ conic outer nozzle $R_r^i = 0.902$ conic inner nozzle $A^i/A^0 = 0.521$ without struts in outer flow



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•							. ,																			
								OR OF	GI P	NA 00	R	P# Ql	AGE JAL	13	, ·				•						:T SPEED (0, FPS)	
			•																					27.68 29.00	FREE-JET O. M/SEC (<i>a</i> . 1
		IMA.	f			49.7	50.9	100 K	55.2	55.1 55.0	55.1	55.0	53 4.6	52.4	2 - 1	49.4	149.1	47.0	146.6	146. 144.0	45.2	· · ·	, ,	TAMB		
X70010		150. 160.					116	10.00	11/2	= = 3 = 3	113	109	108	5	38	10	600	9	88	7.00	74.4 72.0 67.1 65.1	8 126 5		SB59 29.3220 RI	IN) - MODEL	÷
FJ-ZER-FMGDL	INLET, DEGREES	130, 140.				08.9 113.3	3 114.6	16.1 119.0	8 120.9	4 120.3 0 121.4	2 121.4	8 120.8 3 119.0	3 117.5	5 114.6	112.1	9 108.2	105.3	98.2	93.0		4	_		IALPHA	SIZE (23.99 SQ	
MODEL FJ BACKGROUND	URED FROM IN	10. 120.				98.4 103.8 1	105.4 1	100.6 108.1 1	112.0 1	113.3 1	113.8.1	114.6 1	4.0	112.7	111.9	107.9 1	106.2	100.5	96.3	91.5 87.4	83.2	124 7		NG. N294 (DG. ADHO83	154.7 SQ CM	
1	ANGLES MEASU	90. 100. 1	-			8 97.2	96.6	0.086.7	4 101.3	7 103.8	1 104.2	2 103.8	6 106.0	5 107.4	105.9	8 104.2	3 102.2	7 96.5	.3 92.4	.4 87.5 .8 82.7	2 78.0		2.01	TAPE N AERO. RE	E FT) ARC	
IDENTIFICATION	V	6 .				92.7.94	93.8	900.00 900.00	ی و	-	101.0		106.5	103.0	0.4.0	3 102.9 103	102.0	1 101.2 101 4 98.3 98	93.2		7 9	1.8.7	5	02-20-78 C41 ANECH CH	ACGUSTIC RANGE	
		60. 70				ā	4 92.	94.3 93.	7 97.	.3 100	100	2 103.	05.7 105.	3 103		7 101	. •	ព្រ	.8 92.	87. 80.	3 73		-		12.2	
		20.				92 3 91	91.2	93.7	96.2	101.5	102.6	106.7	105.2	102.6	9.10	100.0 98.3	96.4	93.7	86.5	75.1	71.4		4.4	TEST DATE	T POINT 7001	
		6				87.3	88	90.4	6	100.7	18	107.	0 0	102	99.3	97.4	92			79.2			4.		TES	
		C L	50	000	125	0 K	315	200 200 000	900	1000	1600	2000	3150	5000	6 300	10000 12500	16000	20000	31500	40000	B3000		DASFL		MODEL 7000	48

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												0	RI F	P(01	R	Ql	ΙΑΙ	TI.	4												FPS		
																										1.7	YES	YES			SPEED			
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																	1								!		CORRECTION	CORRECT I ON	68		Ü.	È		
			1					~					· 10	 (9	₹.	დ 4	80.	- ^	4	÷. C	000	g 6	10	O 0	6				Z3		ó		
				2				149.	150.8	153	154.6	2 2	155	155.	154.	153.	152.8	151	151.1	149.	•	147	146.	44	144.	166.	CTION	LANCE	TAMB	RELHUM		岀		
ARC			160.					16.1	2.9		17.5						96. 4 R		03.8	2	99.4		83.4		72.0	126.5	REFRACTION	TURBULANCE				- MODE		
LEVELS 40.0 FT			50.					6.5		, , ,	20.01	9 0	0.8	8.61	14.9	3.9 1	0 0 0	0.6	07.0	35	9.6	93.5			74.4	80			8	29.3220		N.		
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### FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS ### AGO							ORIO OF I	INAL POOR	PAGE QUALIT	1 3 1 Y				FPS)	
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				•	ORIGI OF PO	IAL P	AGE 19 VALITY					JET SPEED C (386.0 FPS)	
Lú											30.02 42.40	FREE-JET 17.65 M/SEC	
FOR BACKGROUND NOISE 40.0 FT. ARC X70020 X01400	160.	PWL		113.1	105.7	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	98.7 98.7 98.0	1	85.2 85.2 80.6 74.3	66.7 60.8 118.8	TAMB	- MODEL 1	
S CORRECTED FOR BA). DAY, SB 40.0 FJ-400-FMODL X70 FJ8400-FMODL X01	r, DEGREES), 140, 150,			109.3 112. 111.1 114. 113.9 116.	116	116.3 107 114.9 107 114.6 107	113.9 106 113.1 105 111.8 104	0.05.0	2 92 2 93 2 78	76.2 70.9 126.6	1ALPHA SB59 PAMB 29.5400	SI ZE 23.99 SQ IN)	
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																						- YES - YES	1	JET SPEED	
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- FJ-400-FMGDL X70020	ET, DEGREE	130. 140.				02.2 106.4		D 4	0	11.8 114.6	9 0	6 0		010	2 6	0 0	•	0 C	85.9 84.0	9	125.0 126.0	386	I ALPHA PAMB	\$12E (23.99	
FJ-400-FMGDL	D FROM INLET	. 120.				3 97.5 10	0 2	104.5	108.4	108.0	111.0.1	112.5	113.5	114.3	113.0	108.8	107.0	99.5	0.10	74.9	.6 123.7 12	VELOCITY (FT/SEC) Jet diameter (IN)	N299 ADH999	4.7 SQ CM	
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	ì										O 1		GII P	A <i>N</i>	7.1.		A(GE Al	! !T	8 Y													30.02 42.40	FREE-JET SPEED .65 M/SEC (386.0 FPS)	
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AND FR MEAS	90.	0	•	77.0 76	3 6	9	a	ю		₹ 1		- -	. iO		4	ن د			5.2	٠.	-								98.5	108.6 104	DIAMETER RATIO		H AE	IC RANGE 2400.0 FT) SL	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SCUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X70021

IDENTIFICATION - FJ-400-FMGDL

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						OR OF		INA DOF		'ĀG										09	FREE-JET SPEED H/SEC (0, FPS)	
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SS. 40.0 FT. ARC IDENTIFICATION - MODEL FJ-ZER-FMOCL X70030 BACKGROUND	AMBLES MEASURED FROM IMLET, DEGREES	0. 60. 70. 60. 80. 100. 110. 120. 130. 140. 150. 160.			67.4 88.0 89.3 91.4 91.8 94.7 100.4 104.5 108.6 113.1 111.0	86.7 88.5 89.8 91.7 82.8 84.7 102.0 107.8 110.9 114.6 111.0 1 90.0 89.3 91.2 93.3 94.2 86.3 102.8 108.6 111.5 115.2 111.6 1	90.9 91.2 96.5 94.1 95.8 96.2 104.9 109.2 111.6 114.5 111.7	94.0 92.8 93.9 96.3 97.2 100.8 107.3 109.9 109.7 113.7 111 94.4 94.4 95.3 97.9 98.5 101.7 107.8 109.2 110.9 114.5 111	23.3 24.6 25.4 26.0 29.4 102.1 108.0 108.2 110.6 115.1 111.6	24.1 95.8 96.2 97.6 100.2 103.1 108.3 110.2 111.4 114.8 106.6 104.4 05.4 05.5 05.8 05.7 05.7 108.3 110.2 111.4 114.1 14.1 14.1 14.1 14.1 14.1	94.3 94.5 95.6 92.6 93.7 103.6 107.0 108.0 111.7 113.4 100.8	94.2 94.7 95.7 99.5 99.7 102.9 106.8 107.6 108.4 109.4 104.1	93.8 94.2 96.5 96.2 97.6 101.7 104.7 105.5 105.8 107.5 102.6	92,2 93,5 95,8 97,2 97,2 99,8 102,7 103,0 103,6 104,4 100,4 1 91,0 92,3 95,2 96,7 95,4 96,3 100,5 101,2 101,3 102,3 96,6 1	88.2 90.1 93.9 95.2 92.9 95.7 97.5 98.3 98.5 100.2 08.5 1	86.3 86.4 81.2 82.1 80.4 80.4 84.6 83.4 84.4 85.4 84.5 86.5 86.4 87.2 87.7 87.4 86.9 80.6 81.9 81.7 80.7	73.3 75.8 79.2 80.2 80.7 77.6 82.4 80.9 80.2 80.7 77.8 1	66.0 67.9 69.5 70.2 74.2 71.3 77.4 74.4 74.1 75.4 72.2 62.0 62.7 63.1 64.3 67.3 66.8 70.9 67.4 70.6 68.6 64.6	.7 105.8 106.5 107.9 109.8 110.8 114.0 119.0 120.9 122.6 125.6 122.0 160.2	TEST DATE 02-21-78 TAPE NG. N294 IALPHA 8859 TAMB 24.80 LOCATION C41 AMECH CH AERG. RDG. ADHO92 PAMB 29.3600 RELHUM 41.00	INT ACGUSTIC RAMSE 12.2 M (40.0 FT) ARC 154.7 89 CM (23.98 89 IN) - MODEL 0.	
		40. 50.	50 50 80 80 80 80 80 80 80 80 80 80 80 80 80	888	2.2	0 0 0 0 0 0	87.3 80.8	1000 83,0 83,3	92.2	85.3	28	90	0000 87.8 82	63.6	- 4	25000 78,2 83.3 31500 76,7 80.8	63.0 83.0	İ	0A8PL 103.2 105		MODEL TEST PG 7000 7003	487

								OI OI	RIG F F		AL	P/Q	AGI UA		ïs TY							CORRECTION - YES	000	FREE-JET SPEED M/SEC (0, FPS)	
ELIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - FJ-ZER-FMODL X70030	ANOLES MEASURED FROM INC. TO THE TANGES MEASURED FROM INLET, DEGREES	FREG 40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL		150	63.3 86.3 86.8 67.6 87.7 90.8 92.7 94.4 98.3 102.9 107.5 112.0 (10.	84.1 86.9 87.4 88.0 89.3 91.4 91.8 94.7 100.4 104.5 108.6 113.1 111.0 145 85.9 88.2 88.7 88.5 89.6 91.7 92.8 94.7 102.0 107.8 110.9 114.6 111.0 147	86.18 89.3 90.0 89.3 91.2 93.3 94.2 96.3 102.8 108.6 1	90.6 80.9 91.7 92.5 93,1 95.7 96.3 99.7 106.7 109.8 110.6 114.6 111.7 148	93.0 93.3 94.0 92.8 93.9 96.3 97.2 100.8 107.3 109.9 109.7 113.7 111.1 147 90.3 94.1 94.4 94.4 95.3 97.9 98.5 101.7 107.6 109.2 110.9 114.5 111.4 148	92.2 92.8 93.3 94.6 95.4 98.0 99.4 102.1 108.0 109.2 110.6 115.1 111.6 148	93.1 95.2 94.7 95.2 95.0 96.9 96.8 102.4 108.6 109.8 110.7 114.2 109.7 1	93.6 95.2 94.4 95.4 96.2 98.6 99.7 103.2 108.6 109.3 111.7 113.4 106.9 148	92.0 93.9 93.7 94.9 95.5 98.3 99.7 103.9 107.3 108.3 109.7 109.8 104.3 146	90.6 94.2 94.2 94.7 95.7 98.5 99.7 102.9 106.8 107.6 108.4 109.4 104.1 146	89,9 95,1 83,9 94,6 95,9 97,8 99,1 102,2 105,6 106,2 107,3 107,7 103,2 145 87,8 92,9 93,8 94,2 96,5 98,2 97,8 101,7 104,7 105,5 105,9 107,5 102,6 145	85.4 90.8 92.2 93.5 95.8 97.2 97.2 99.8 102.7 103.0 103.6 104.4 100	90.1 93.9 95.2 92.9 95.7 97.5 98.3 98.5 100.2 96.5 142 86.9 91.2 92.1 90.4 90.4 94.8 93.4 94.4 95.4 94.0 141	76.7 80.8 84.5 86.4 87.2 87.7 87.4 86.9 90.6 91.9 91.7 90.7 88.0 141.	72.2 76.2 80.0 81.7 85.2 87.2 83.7 82.5 65.5 80.8 85.1 65.0 63.4 141 65.8 69.1 73.3 75.8 79.2 80.2 80.7 77.6 82.4 80.9 80.2 80.7 77.6 140	.5 62.6 66.0 67.9 69.5 70.2 74.2 71.3 77.4 74.4 74.1 75.4 .5 55.5 62.0 62.7 63.1 64.3 67.3 66.8 70.9 67.4 70.6 68.6	103.2 105.7 105.8 106.5 107,9 109.8 110.8 114.0 119.0 120.9 122.6 125.6 1	MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0, REFRACTION CORRI Input 1.000 Calc. 1.000 FREE JET DIAMETER (IN) 48,00 TURBULANCE CORR	TEST DATE 02-21-78 TAPE NG. N294 IALPHA SB59 TAMB 24 LOCATION C41 ANECH CH AERO, RD9. ADH092 PAMB 29.3600 RELHUM 41	MODEL TEST POINT ACCUSTIC RANGE 7000 7003 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 0.	

							ORIGII OF PO	AL PA OR QU	GE IS					T SPEED (0. FPS)
			•										24.80 41.00	FREE-JET O. M/SEC (
KE LEVELS				3.7 164 4.2 165 6.2 165	- 2 2 3 5 5 5 5 5 5 5 5 5	3 164		3 160 159 159	158 156 156 156			92.8 177.6 93.6 94.5	TAMB 10 RELHUM	FÜLL
38 2400.0 FT.	X70031	DEGREES	0. 150.	.1 90.6 .7 91.2 .7 90.4	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	83.2 80.8 81.6 78.4 79.8 77.4	66.4.4	2 0 0 2 0 0 2 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 3			.3 100.1 .1 102.4 .1 102.4 SHIFT -9	ALPHA SB59 PAMB 29.3600	00 SQ 1N) -
H. STD. DAY, SB	R-FMODL	INCET,	130.		4 6 6 6	86.7 86.0 86.2 1	82.0 82.0 92.0 92.0 92.0	76.4	25.0 25.0 25.0 25.0			.6 99.4 99 .9 103.7 103 .6 103.7 103 FREQUENCY		SIZE 3 CM (1400.00
~	<u>.</u>	MEASURED FROM	÷	76.3 77.9 79.7	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	82.3 85.3 81.4 84.1 80.7 82.7	76.8	34.4 9.6 9.6			94.1 98 100.4 103 100.9 104 7.640	PE NG. N294 RDG. ADH092	9032.2 80
ODEG F., 70 PERCENT	IDENTIFICATION	ANGLES ME	90. 100.	73.8 74.8 75.4 76.1 76.2 77.7	7 28.	100	78.6 79.7 77.7 78.9 78.0 77.5	2 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	2 39.			4 90.5 91.4 6 98.5 98.1 8 99.7 98.6 AMETER RATIG	TAPE CH AERG' I	RANGE 10.0 FT) SL
			70. 80.	0 71 9 73 7 78	7 76.	27.72	74.1 75.8 73.8 75.7 73.3 76.2	. 1 68.	2 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			96.5 88.4 93.7 96.6 94.3 97.8	02-21-78 C41 ANECH C	ACGUSTIC RANG. 5 M (2400.0
200				9 69.6 0 70.8 3 71.7	8 74.7 5 74.9 0 73.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 7 2 7 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2	68 68 2 6 60 7	25.6			20 0 20 0 1 0 1 0	TEST DATE C	INT 731.
			40.	64.1 67 64.7 69 65.5 70	86 68 68	69.9 72 68.5 72	65.3 71 64.3 71 61.7 69	55.6 49.1 61.0 54.0	23.1			79.7 63.7 84.0 89.1 84.0 90.1	F	TEST 70
			FREG	8 8 8 8 8	82.50	200 200 200 200 200 200 200 200 200 200	000 T 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S 000 S	3 1 20 0 3 1 20 0 3 1 20 0	6300 6300 6300 6300 6300	12500 16000 20000	31500 40000 50000 63000	60000 GASPL PNL PNLT		1300 489 1300 489

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										OF	P	00	R	QI	UA	LIT	Y										T SPEED (294.0		
																										<u>40</u>	FREE-JET M/SEC (
				4				.2	-	3	NO 14	. w	4	0 4	ימו	4 0	no di	6.	D 4	બ છ	4.	- 10	9 09	.7	6.	9 4	99.61	:	
40.0 FT. ARC			160.	Ī				1.1 147	4	3 . c	2.161		4 151	. 152 . 6 152	3 162	7 16	6 5 5 5 5 5	9 150	. 2 130 149	.4 149	3 147	0.46	6 144	. 9 144	0.9 164	TAMB	Ş		
3.0 FJ.	X70040 X01300		150. 1					14.0 11	E		17.8 110	. 4	8	 • -	9.	ص ا	06.9 98	9	йó	0, 0	0	83.1 80	00	ю.	26.3 120	SB59 29.5400	· E	:	
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. UAY, 35	FJ-300-FMODL FJB300-FMODL	INLET,	130.					106.4	108.5	12.0	113.2	4 -	113.5	113.9	115.2	2 4 2 4 3 6	114.7	112.8	108.8	108.4	8	9.60	79.4	74.2	125.9	• •			- C. C.
	MODEL BACKGROUND I	FROM	120.					1.001	102	<u>5</u>	106	200	=	111	=	112	112	112	109	106	101	92.2	88	77.	0 123.2	N299 ADH100	.7 SQ		
TOEN! N. P.	BACK	MEASURED	011 .0						9		66.	200	9 102	104	201	100	3 108 108	3 108	6 108 0 106	0 0	96 9	96	3 81.	2 68.	6 118.	APE NG. 3. RDG.	164		
יייייייייייייייייייייייייייייייייייייי	CATION	ANOLES I	90. 100					6	۲		- 1) 6 1 0	-	0 4	0	40	0.4	8	ာ က က	10 eq	N .		40	•	6.1 115	TAPE AERO.	RANGE 40.0 FT) ARC	-	
שנים ביי	IDENTIFI		.09					4	<u>.</u>	90.1 92	OI a	0 4	0		01	-1 -	3.3 104	9			-	93.6 94	a	0	14.7 116.	17-78 ANECH CH			
			70.					-	0 (N 60	a c	ე რ	4	Φ 4 -	6	4 6	0 6	8	ν φ 		e .	83. 1 87. 6	al co	e.	114.21	02-27-78 C41 ANECE	병원		
			.09					1 .					• • •	• •		-1 -		• • •				91.7	-1 -		114.8 1	FEST DATE	-		
			20.					87.	90	98	8	9 6	98	104. 106.	9	102	102	<u>ē</u>	100 98.	6 g	5	87.5	200		113.8	TEST LOC/	TEST POINT 7004		
			40.	a o	ღ 0	0	000	94	9 9	9 9	99	9 8	98	107.	5		102	5	6 6 6 6	96	00	60.00 63.60	2 2	64.	L 114.2	· . ·	0		
				F E E	6	0.	2 9 6	S S S	31	4 B	8	3 <u>5</u>	125	160	520	400	500	900	1000	1600	2500	31500	5000	8000	CASPL		MODEL 7000		

												N/ 00			AC UA		IS TY								YES		SPEED 294.0 FPS)	
								:											-						CORRECTION -	29.12 1 42.10	FREE-JET 89.61 M/SEC (
		. 160. PWL					110	113.7 149	113.8 151	113.0 151	110.8 151	170.4 151	109.6 153	109.0 153	107.0 152	106.0 152	105.6 152 105.2 152	104.3 151	102.2 150	103.7 151 96.6 150	93.2 149 87.0 149	82.3 147	65.2 145	123.1 165	REFRACTION TURBULANCE) - MODEL	:
	DEGREES	140. 150.					•	114.5 116	116.2 118	116.5 117	117.2 116	117.4 115	117.2 113	116.9 112	115.4 110	113.3 108	112.9 107	108.9 105	105.0 101	0 = 0	95.6 90 89.7 85	84.8 80	9 63	127.6 126	294.00 48.00	IALPHA SB59 PAMB 29.5	\$12E 23.99 SQ IN)	
009-7	5	120. 130.					101.0	103.4 110.	105.6 111.	109.5 113.	109.3 112.	110.8 112.	111.0 114.	112.1 114.	112.1 114.	114.0 114.	113.4 113.	111.2 111.	102.6 110	10 10 10 10	.68 97.	4	75.4	123.6	CITY (FT/SEC DIAMETER (IN	N299 ADH100	4.7 SQ CM (
- 1		100. 110			-	· (92.3 83.	92.8	94.0	97.2 99	98.5 100	99.2 101	100.6 103	103.0 104	106.0 105	107.0 108	106.9 109	106.7 109	104.1 105	101.3		4.4	71.3 69.	116.5 117	JET FREE	TAPE NG. AERS. RDG.	ARC	
DEN	NY.	.00					69.6	91.4 92.	92.5 94.	95.2 96.	96.7 98.	97.9 59.	103.1 101.	108.6 105.	107.8 109.	106.8 106.	106.3 108.	107.4 108.	105.7 107.	105.0 104.	97.2 97.	86.9 87.	71.6 72.	117.4 11		27-78 ANECH CH	RAN O.O	
		60. 70.					90.00	91.2	92.3	94.5 95.	95.4 96.	98.4 98.	107.2 107.	110.6 108.	109.6 107.	108.2 107.	107.8 107.	106.5 106.	106.3 105. 103.6 104.	102.1 102.	78 0.78	88.0 86	79.1 78.	118.3	ZE SCALE CALC.	02-1 C41	5	
		40. 50.					7 2	4.	6 K	94.	.3 94.	.6 97.	9 110	5 11.	108 108 108	6 106	. 2 106.	105	6 102.	2 100	. a 95	7 85.	.8 78.	119.6 118.1	MODEL/FULL : INPUT 1.00	TES		
	ION - 13-800-1100EL	ASURED FROM INLET, DE	ANGLES MEASURED FROM INLET, DEGREES . 60. 50. 70. 80. 100. 110. 120. 130. 140. 150. 160.	ANGLES MEASURED FROM INLET, DEGREES 40. 60. 50. 70. 80. 100. 110. 120. 130. 140. 160. 160.	ANGLES MEASURED FROM INLET, DEGREES 40. 60. 50. 70. 80. 80. 100. 110. 120. 130. 140. 160.	ANGLES MEASURED FROM INLET, DEGREES 40. 50. 70. 80. 80. 100. 110. 120. 130. 140. 150.	ANGLES MEASURED FROM INLET, DEGREES 40. 60. 50. 70. 80. 80. 100. 110. 120. 130. 140. 150. PW	40. 60. 60. 70. 80. 80. 100. 110. 120. 130. 140. 160. 160. 89.7 92.2 90.5 90.4 69.6 \$1.3 92.3 83.2 99.5 105.1 107.8 112.1 112.0 14	40. 50. 50. 70. 80. 90. 100. 110. 120. 130. 140. 160. 160. P 89.7 92.2 90.5 90.4 69.6 51.3 92.3 93.2 89.5 105.1 107.8 112.1 112.0 145 89.7 92.2 90.5 90.4 91.6 92.8 91.7 93.6 101.6 108.5 112.0 1147 91.4 91.0 91.2 90.6 91.4 92.8 92.9 94.2 103.4 110.8 114.5 116.6 113.7 149	ANOLES MEASURED FROM INLET, DEOREES 40. 50. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PWL 69.7 92.2 90.5 90.4 69.6 51.3 92.3 93.2 99.5 105.1 107.8 112.1 112.0 145.3 91.4 91.0 91.2 90.5 90.4 91.8 92.8 94.2 103.4 110.6 114.3 112.7 147.7 92.6 92.1 92.3 92.9 94.2 103.4 110.6 114.5 116.6 113.7 147.7 92.6 92.9 94.2 94.8 94.7 105.6 111.9 116.2 116.1 113.7 113.6 151.2	40. 50. 50, 70. 80. 100. 110. 120. 130. 140. 150. 160. PML 89. 7 92. 2 90. 5 90. 4 69. 6 51. 3 92. 3 93. 2 99. 5 105. 1 107. 8 112. 1 112. 0 145. 3 91. 4 91. 6 92. 9 94. 2 103. 4 110. 110. 0 114. 3 112. 7 147. 7 92. 6 92. 1 92. 3 92. 9 94. 2 103. 4 110. 6 113. 7 114. 5 115. 6 113. 7 148. 9 92. 6 92. 9 94. 2 103. 4 110. 6 114. 5 115. 0 114. 3 112. 7 147. 7 92. 6 92. 1 92. 3 92. 9 94. 2 103. 4 110. 6 114. 5 115. 0 114. 3 112. 7 147. 7 92. 6 92. 1 92. 3 92. 9 94. 2 94. 2 103. 4 110. 6 114. 5 115. 6 113. 7 13. 6 151. 5 94. 5 94. 5 95. 7 97. 2 99. 0 109. 5 113. 2 116. 5 117. 5 113. 0 151. 5	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PML 89.7 92.2 90.5 90.4 69.6 51.3 92.3 83.2 99.5 105.1 107.8 112.1 112.0 145.3 91.4 91.0 91.2 90.5 90.4 91.6 91.7 93.6 101.6 108.5 112.0 114.3 112.7 147.7 91.0 91.2 90.5 91.4 92.8 92.9 94.2 103.4 110.8 114.5 116.6 113.7 149.9 93.5 92.1 92.3 92.5 94.2 94.2 103.4 110.8 114.5 116.6 113.7 149.9 93.5 92.1 92.5 94.6 95.7 103.6 112.8 116.6 117.7 113.6 151.2 94.1 92.3 92.6 95.4 95.7 99.0 103.5 113.2 116.6 117.7 113.6 151.5 97.3 94.6 95.7 98.4 98.5 100.6 109.3 112.3 117.2 116.6 110.8 151.3	40. 50. 50. 70. 50. 100. 110. 120. 130. 140. 150. 160. FWL. 40. 50. 50. 70. 50. 100. 110. 120. 130. 140. 150. 160. 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		(A) E0	59.0 DEG. F., 70 PERCENT R.H.	CATION -	ANGLES MEASURED FR	0. 70. 80. 90. 100.	66.9 67.0 67.8 69.1 68.6 66.9 68.6 67.5 70.6 69.3 69.5 69.9	69.0 68.7 79.3 71.2 70.6 71.9 72.2 71.2 71.0 72.0 72.3 73.3	71.2 71.6 71.9 72.9 73.5 75.2	73.9 73.2 73.7 75.9 75.1 77.0 77.1 77.0 77.1 77.1 77.0 77.1 77.1	72.7 72.7 74.1 75.8 78.4 77.8	72.0 73.4 74.2 76.4 76.5 79.2	72.2 73.3 75.1 77.2 77.9 79.4 71 8 73.5 74 8 77.3 77.5 79.0	72.9 73.7 75.1 76.4 76.9 78.1	73.0 73.5 76.1 77.2 76.1 77.6 73.7 73.5 75.8 75.9 75.2 76.7	71.4 73.3 76.0 76.2 74.5 76.0	66.0 68.1 71.4 70.3 67.0 65.2	10 7 82 6 61.7 63.6 63.1 61.7 60.5	35.1 40.2 42.5 43.9 41.5 36.8	.7 14.4 13.1 14.4. 15.0 10.1					28	94,5 95,3 98,6 98,4 97,0 98,2	DIAMETER RATIO 7.840	TEST DATE 02-27-78 TAPE NG. N2 LGCATION C41 ANECH CH AERG. RDG. AD	ACGUSTIC RANGE 731.5 M (2400.0 FT) SL 9032.2	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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IDENTIFICATION - FJ-ZER-FMODL

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07/17/79 10.160						93.00 49.40 FREE-JET SPEED 1.63 M/SEC (296.0 FPS)
UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-300-FMODL X70070 BACKGROUND FJB300-FMODL X01300 ANGLES MEASURED FROM INLET, DEGREES	0. 120. 130.	81.2 84.6 84.6 85.1 86.4 88.3 89.9 92.1 95.8 102.1 106.5 110.5 109.4 143.2 82.9 84.4 85.1 86.0 87.3 89.4 90.6 92.5 97.9 105.0 108.9 111.6 109.2 144.6 84.9 85.9 87.1 86.0 87.8 90.2 81.8 83.7 96.9 105.0 112.2 112.8 103.0 146.7 85.2 86.0 89.2 97.8 92.7 94.8 100.0 110.1 113.7 112.9 105.3 147.5 85.6 87.1 88.6 89.2 97.8 92.7 94.8 100.0 110.1 113.7 112.9 105.3 147.5 85.6 87.9 90.2 80.4 91.5 92.4 100.0 110.1 113.7 112.9 105.3 147.5 90.6 87.9 90.2 90.4 91.5 93.6 95.7 98.4 100.0 105.5 112.3 113.9 109.4 97.5 148.1 90.1 92.6 92.6 94.0 96.3 97.2 100.9 106.6 112.2 114.8 108.0 96.5 148.2 90.1 99.5 91.9 93.2 96.1 98.2 102.0 107.0 113.1 114.5 106.8 96.3 146.5 90.2 90.5 92.3 92.5 93.9 96.5 98.6 102.0 107.0 113.1 114.5 106.8 96.6 148.9 90.2 90.5 92.3 92.5 93.9 96.5 102.0 107.0 113.1 114.4 113.9 105.8 96.3 148.9	3 92.3 92.6 92.8 94.2 94.2 94.3 99.2 103.1 103.1 113.2 112.6 104.6 90.6 146. 95.9 146. 95.2 94.7 94.8 95.2 95.4 99.1 103.0 107.8 112.2 111.0 103.5 94.7 147. 94.8 95.2 95.3 95.4 99.1 103.0 107.8 112.2 111.0 103.5 94.7 147. 94.8 95.5 95.5 95.7 95.8 100.2 106.6 111.1 108.9 101.9 94.8 146. 3 95.2 96.7 96.9 96.5 99.5 102.5 106.6 111.1 108.9 101.9 94.8 146. 3 95.8 97.0 98.5 99.7 102.6 106.4 109.8 108.2 101.9 94.8 146. 1 94.6 96.8 96.8 101.3 100.2 102.6 105.6 109.8 107.1 101.6 93.9 146. 1 93.9 95.1 96.1 97.3 100.2 102.8 103.7 107.0 105.0 99.9 93.1 145. 5 92.4 94.3 95.0 98.2 99.6 98.8 101.0 102.6 106.4 102.8 98.7 90.7 145.	0 86.5 89.3 89.8 93.8 95.2 93.3 94.1 98.7 192.3 95.9 92.5 88.8 144 1 82.6 86.6 88.6 89.1 89.6 89.8 91.6 95.6 96.4 93.2 86.1 83.8 144 6 77.8 80.8 82.9 87.1 87.6 84.4 86.2 89.8 90.7 87.9 82.4 79.5 143 7 70.5 73.2 76.6 78.4 79.9 78.9 79.4 84.7 83.2 81.5 76.3 73.5 141 9 64.3 66.9 69.7 70.2 71.4 72.9 73.1 79.6 77.5 75.0 70.3 67.1 140 9 57.6 60.4 64.0 63.1 65.5 65.1 66.6 72.8 72.8 70.2 61.5 59.0 141 3 105.0 106.4 106.6 108.4 110.2 110.8 114.0 118.4 124.1 125.0 121.4 115.4 160	TEST DATE 02-27-78 TAPE NG. N299 IALPHA SB59 TAMB 3 LGCATION C41 ANECH CH AERO. RDG. ADH138 PAMB 29.5900 RELHUM 4 TEST POINT ACOUSTIC RANGE S1ZE S1ZE S12.2 M (40.0 FT) ARC 164.7 SQ CM (23.99 SQ IN) - MODEL 90.

60. 70. 60. 90. 100. 110. 120. 130. 140. 160. 160. PML 60. 1 67. 6 67. 6 69. 100. 110. 120. 130. 140. 160. 160. PML 60. 1 66. 7 6 6. 6 65. 6 69. 6 69. 4 95. 3 101. 7 105. 1 102. 1 105. 1 141. 5 60. 1 66. 7 66. 6 65. 6 69. 6 80. 8 90. 4 97. 6 107. 2 110. 2 111. 6 106. 7 146. 0 90. 5 90. 1 3 91. 7 91. 6 93. 1 100. 7 102. 1 102. 2 105. 9 146. 7 90. 5 90. 1 3 91. 3 91. 3 91. 4 95. 3 101. 7 102. 1 112. 7 112. 0 107. 2 146. 0 91. 82. 6 92. 6 93. 1 90. 3 91. 4 95. 3 101. 7 112. 7 112. 0 102. 3 147. 6 92. 6 92. 6 93. 1 90. 3 91. 4 95. 4 102. 3 10. 7 112. 7 112. 0 105. 3 147. 6 92. 6 92. 6 93. 6 92. 6 92. 1 100. 7 112. 7 112. 7 102. 1 102. 3 147. 6 92. 6 92. 6 92. 6 92. 6 92. 1 100. 1 107. 1 113. 7 112. 7 107. 0 102. 3 147. 7 92. 6 92. 6 92. 6 92. 7 102. 1 102. 1 102. 1 102. 1 102. 1 102. 3 147. 6 92. 6 92. 6 92. 6 92. 1 102. 1 107. 6 111. 7 110. 3 102. 1 147. 1 92. 6 92. 6 92. 6 92. 7 103. 1 107. 6 111. 7 110. 3 102. 1 147. 1 92. 6 92. 6 92. 6 92. 1 102. 1 107. 6 111. 1 103. 1 102. 1 107. 1 147. 1 92. 6 92. 6 92. 6 92. 1 102. 1 107. 6 111. 1 103. 1 102. 1 102. 3 147. 6 93. 6 101. 1 102. 0 102. 8 102. 8 102. 8 105. 8 105. 3 102. 3 147. 6 93. 6 101. 1 102. 0 102. 8 101. 8 103. 7 107. 3 111. 1 103. 6 105. 3 102. 3 147. 6 93. 7 6 96. 8 96. 9 97. 9 90. 1 103. 2 107. 8 111. 8 109. 9 105. 6 102. 3 147. 6 93. 8 100. 1 102. 2 102. 8 102. 8 103. 3 102. 1 103. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102. 3 102.		RANGE 812E 812E 812E 80.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) -	, 4
60. 70. 60. 90. 100. 110. 120. 130. 140. 160. 160. PM. 46.1 67.5 67.6 66.0 90. 100. 110. 120. 130. 140. 160. 160. PM. 46.1 67.5 67.6 66.0 90. 100. 110. 120. 130. 140. 110. 141.6 40.1 60.7 6 67.6 66.0 90. 90.4 85.3 101.7 106.1 110. 111.6 106.7 145.3 40.1 60.7 6 67.6 68.6 69.9 80.4 87.5 101.7 110. 111.6 106.7 145.0 40.2 60.3 60.1 80.2 80.4 80.4 80.4 102. 110. 111.7 112.0 107.2 145.0 40.2 6 60.3 60.1 80.3 80.4 80.4 102. 110. 111.7 112.0 107.2 147.7 40.2 6 60.3 60.1 80.3 87.3 80.6 60.2 100. 111.5 110. 2 107.0 102.8 147.7 40.2 6 60.3 80.1 80.2 80.4 80.5 100. 110. 111.5 110. 100. 102.4 147.7 40.3 80.2 80.3 80.5 80.6 80.5 80.5 80.5 100. 110. 111.5 110. 2 107.0 102.8 147.7 40.4 80.7 80.6 80.6 80.6 80.6 80.6 80.6 100. 111.5 110. 2 107.0 102.8 147.7 40.5 80.7 80.7 80.8 80.8 80.8 80.8 80.8 100. 110. 111.5 110. 102.8 147.7 40.6 80.7 80.7 80.8 80.8 80.8 80.8 80.8 100. 110. 102. 102.8 147.7 40.8 80.8 80.8 80.8 80.8 80.8 80.8 80.8	TAMB 33.00) RELHUM 49.40	CH AE	TEST DATE 02-27-78 LOCATION C41 ANECH
60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 160. PML 80. 1 80. 5 80. 180. 100. 110. 120. 130. 140. 150. 160. 160. PML 80. 1 80. 5 80. 180. 180. 180. 180. 180. 180. 1107. 1141. 180. 107. 1441. 180. 180. 180. 180. 180. 180. 180. 18	FRACTION CORRECTION -	FREE JET VELOCITY (FT/SEC) 298.00 FREE JET DIAMETER (IN) 48.00	SCALE SALC. 1
60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PML 4 86.1 87.5 87.6 86.3 86.4 85.3 101.7 106.1 107.1 141.6 160. PML 4 86.1 86.7 86.5 86.8 86.8 80.4 87.5 107.2 110.2 111.6 107.1 141.6 160. PML 5 80.5 80.1 80.1 80.3 80.4 87.5 107.2 110.2 111.2 112.0 107.2 146.7 10.	0	5 112.4 111.6 113.7 118.5 123.4 123.9 121.2	4 110.6
60. 70. 60. 90. 100. 110. 120. 130. 140. 160. 160. PM. 4 85.1 67.5 67.6 66.3 66.6 98.4 95.3 101.7 106.1 108.1 107.1 141.5 68.5 68.5 68.6 98.6 99.4 97.6 107.2 110.2 111.6 100.7 146.3 69.5 69.5 99.1 91.3 91.2 92.4 97.6 107.2 110.2 111.6 100.7 146.3 69.5 99.6 99.6 99.1 91.3 91.2 92.1 100.7 110.2 111.6 100.7 146.3 147.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91	3 141.	68.5 67.1 67.5 71.1 70.6 68.3 61.8	66.1 69.0
4 66. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160. 160. 160. 160. 160. 160. 160. 16	1 143	74.4 75.2 '74.3 80.9 80.4 78.1 71.6	.0 73.9 74.7
60. 70. 60. 90. 100. 110. 120. 130. 140. 160. 160. PML 66.1 67.6 67.6 66.3 66.6 89.4 95.3 101.7 106.1 107.1 141.6 66.1 66.7 6 67.6 66.9 66.9 90.4 97.5 101.7 106.1 107.1 141.6 66.1 66.7 68.7 66.6 89.6 90.4 97.5 101.7 102.1 110.6 105.7 146.3 66.1 68.7 6 69.6 89.6 89.6 99.1 100.7 102.1 112.0 107.2 146.0 7 91.6 92.6 93.6 93.9 93.1 93.4 96.5 102.9 114.0 112.0 105.3 147.6 8 93.8 93.9 93.9 93.1 93.4 96.5 103.7 110.7 112.0 105.3 147.6 8 95.3 95.0 95.3 95.0 96.8 96.5 96.1 105.6 113.7 112.7 105.6 102.7 147.3 9 95.4 95.0 95.0 95.0 96.9 96.1 105.0 113.7 112.7 105.6 102.7 147.3 9 95.4 95.7 95.8 97.4 98.6 107.6 113.7 113.7 110.8 105.2 147.0 9 95.4 95.7 95.8 99.7 102.2 107.7 113.0 1105.3 102.3 147.6 9 95.4 95.7 95.8 99.7 102.3 107.1 111.7 110.1 105.3 102.3 147.0 9 95.4 95.7 95.8 99.7 102.3 107.3 111.1 109.5 105.3 102.3 147.0 9 95.8 95.9 95.0 95.0 100.6 100.6 107.0 111.6 105.3 102.3 147.0 9 95.9 100.7 99.9 100.6 100.6 103.7 107.9 110.9 105.8 105.3 102.3 147.0 9 95.9 100.7 99.9 100.6 100.6 103.7 107.9 110.9 105.8 105.3 102.3 147.0 9 95.9 100.1 101.4 101.2 96.3 100.1 103.2 105.7 105.7 105.7 105.7 105.7 105.8 105.3 102.3 147.0 9 9 9 9 0 0 100.6 100.6 100.6 100.6 100.6 100.7 105.3 103.3 102.3 147.0 9 9 0 0 10.1 102.2 102.6 100.6 100.6 100.7 105.7 105.7 105.7 105.8 105.8 105.3 102.3 147.0 9 9 0 0 10.1 102.2 102.6 100.6 100.6 100.7 102.7 105.7 105.7 105.7 105.7 105.7 105.7 105.7 105.7 105.3 105.3 105.3 107.3 117.0 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9 107.9	145	90.6 86.6 87.7 91.1 89.3 88.0 85.4 82.0 81.3 80.0 86.5 84.0 81.9 70.7	.5 68.6 88.0 2 80 R 81.0
4 88.1 87.5 87.6 88.5 89.6 89.4 95.3 101.7 106.1 107.1 141.5 87.8 88.5 89.5 89.5 80.4 95.3 101.7 106.1 107.1 141.5 88.5 89.5 89.5 80.4 95.3 101.7 106.1 107.1 141.5 87.8 88.5 89.5 89.5 80.4 97.8 100.2 111.6 106.7 145.3 89.5 80.5 90.5 90.1 91.3 91.7 91.6 93.1 100.7 112.0 107.2 146.0 89.5 89.5 100.7 100.1 112.0 105.2 146.0 89.5 89.5 100.7 100.1 112.0 105.3 147.6 89.5 89.5 89.5 89.5 100.2 113.0 112.7 112.2 105.9 146.0 146.0 147.3 89.5 89.5 89.5 89.5 100.2 113.0 112.7 112.0 105.3 147.6 147.3 89.5 89.5 89.5 89.5 89.5 100.4 107.1 113.0 112.7 110.8 102.9 147.3 147.3 89.5 89.5 89.5 89.5 89.5 100.4 107.1 113.0 112.7 105.8 102.9 147.9 147.3 89.5 89.5 89.5 89.5 102.7 112.2 110.5 112.7 117.6 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 102.9 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 147.0 14	0 146.	92.6 91.8 92.5 95.7 96.3 93.9 91.0	3 92.2 93.7
4 66. 70. 60. 90. 100. 110. 120. 130. 140. 160. 160. PM. 4 66.1 67.5 67.6 66.3 66.5 69.4 95.3 101.7 106.1 107.1 141.5 66.7 69.7 69.5 69.5 69.5 90.4 97.5 100.7 110.6 107.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 146.0 7.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14	7 148.	101.2 98.3 100.1 103.2 102.6 100.6 99.8 1 98.2 98.8 2 98.8 3 97.4 94.4	6 98.5 98.7 1 9 95.3 94.8
4 98.1 97.5 97.6 90. 100. 110. 120. 130. 140. 150. 160. PM. 4 98.1 97.5 97.6 98.3 99.4 95.3 101.7 106.1 103.1 141.5 4 98.1 97.5 97.6 98.5 99.4 95.3 101.7 106.1 107.1 141.5 9 90.5 90.1 91.3 91.2 92.4 99.5 107.2 110.6 104.7 145.3 9 90.6 90.1 91.3 91.2 92.4 99.1 100.7 102.1 10.2 146.0 9 90.6 90.1 91.3 91.3 91.4 95.4 102.9 114.0 112.0 107.2 146.0 9 90.6 90.1 91.3 91.4 95.4 102.9 109.9 114.0 112.0 105.3 147.0 9 90.6 90.1 91.3 91.4 95.4 102.9 109.9 114.0 112.0 105.3 147.0 9 90.6 90.7 95.6 96.6 96.7 96.6 107.0 113.2 110.5 110.2 147.0 9 90.9 90.9 90.9 90.0 10.2 107.6 112.7 110.9 105.3 147.0 9 90.9 90.9 100.0 100.6 103.2 107.6 111.7 110.1 105.3 102.3 147.0 9 90.9 90.0 102.5 101.6 103.2 107.6 111.7 110.9 105.3 102.3 147.0 9 90.9 90.0 102.5 101.6 103.3 107.9 111.8 109.9 106.3 102.3 147.6 9 90.9 90.0 102.5 101.6 103.3 107.9 111.1 109.6 105.3 102.3 147.6 9 90.9 90.0 102.5 101.6 103.5 106.8 106.3 102.8 148.0 9 90.9 101.1 102.0 102.5 101.6 103.5 106.8 106.3 102.3 147.6 9 90.9 101.1 102.0 102.5 101.8 103.5 106.8 106.3 102.3 147.6 9 90.9 101.1 102.0 102.5 101.8 103.5 106.8 106.3 107.9 148.0	7 147	102.6 100.6 101.8 103.7 105.7 103.3 102.0 1	4 99.7 100.1
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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS

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FOR BACKGROUND 40.0 FT. ARC	X70080 X01400		150. 160					١.	100	200	96 0	97	04.6 95.8 04.0 95.4	96 0	9 8	3 95.	7 94	6 94.	93.	99.0 92.1	.3 92.	88	4 84.	81.4 80.	9 67	1.1 58.	19.4 113.	SB59	0060 .
DAY, SB 40	FJ-400-FMGDL FJB400-FMGDL	DEGREES	140.					106.8 1	108.1	2.6	114.1	14.6	13.6	112.3	12.0	110.9	00.00	107.4	107.0	103.0	101.6	26.2	92.5	86.55	73.6	9.89	123.7	IALPHA	1
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC IDENTIFICATION - MODEL FJ-ZER-FMODL X70120 BACKGROUND	40. 50. 50. 70. 80. 90. 100. 110. 120. 130. 140. 160.		85.3 89.6 88.8 89.4 90.0 92.1 94.5 96.6 100.6 105.6 110.0 114.5 112.9 86.1 89.2 89.4 89.7 92.1 93.7 94.3 96.5 103.4 108.2 111.9 116.6 113.2 86.4 90.4 91.2 90.7 91.8 94.2 95.6 97.2 104.5 111.5 114.2 116.3 113.8 88.7 91.3 92.0 91.8 93.2 95.5 96.4 98.6 105.5 112.4 115.5 118.7 114.3	89.8 92.6 92.4 92.9 97.3 96.1 97.5 100.7 107.4 112.2 115.4 119.0 115.2 93.4 93.2 93.9 94.5 95.3 97.9 99.1 102.2 109.2 113.3 115.4 119.6 115.2 95.7 96.3 97.0 96.1 96.4 98.8 99.9 103.1 110.5 113.1 114.5 118.9 114.3 93.1 97.1 97.2 97.8 100.4 101.0 103.9 110.3 112.5 115.6 119.8 114.2	2 95.5 95.8 96.6 97.7 100.3 101.7 104.8 111.5 113.7 116.1 120.1 114.3 4 97.7 97.4 97.2 97.3 99.6 101.0 104.7 112.1 114.3 116.0 118.4 111.7 96.1 97.1 97.4 98.2 100.1 102.4 105.1 111.5 114.7 115.7 117.1 110.3 96.2 96.7 97.7 98.0 100.0 102.2 106.4 112.3 113.6 114.5 115.7	94.9 97.0 96.8 96.8 97.6 100.4 102.1 105.8 111.4 112.7 113.3 113.5 106.7 94.9 97.0 96.8 97.1 98.2 100.8 102.5 105.9 110.3 112.3 113.5 106.7 93.8 97.9 97.7 98.2 98.7 101.8 102.5 105.4 110.1 111.8 111.1 111.7 105.8 93.9 98.3 97.4 101.3 101.6 104.9 109.1 110.2 110.0 110.4 104.7	91.1 95.9 97.6 98.7 99.8 101.7 101.1 104.4 108.0 109.8 108.4 109.0 103.8 88.6 94.8 95.2 97.0 98.8 100.5 100.4 102.5 105.4 106.7 106.4 107.4 101.8 86.4 93.1 95.2 96.0 98.2 100.0 98.9 101.5 103.2 105.5 103.8 104.8 100.8 16.6 99.7 92.0 94.1 97.1 98.5 96.1 98.7 100.8 101.8 101.0 101.5 97.	80.2 86.0 89.0 89.4 94.5 95.6 93.2 93.7 98.3 96.9 97.4 98.6 45.2 78.7 82.5 86.5 88.4 89.5 90.0 89.4 90.9 93.6 96.1 93.9 92.2 89.5 73.7 77.5 31.0 82.9 86.9 87.9 83.7 85.5 89.0 90.6 89.1 87.0 84.9 86.3 70.3 73.6 76.3 78.7 80.2 79.2 78.6 84.9 84.9 84.9 83.7 81.7 79.1 86.5 86.6 87.9 87.9 77.5 72.6 87.9 87.9 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 77.5 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9	105.7 108.6 108.8 109.2 110.5 112.6 113.3 116.5 122.2 124.8 126.5 129.6 124.7 163.7 TEST DATE 02-21-78 TAPE NG. N294 IALPHA SB59 TAMB 24.	ACGUSTIC RANGE STATE 154.7 SQ CM (23.99 SQ IN) - MODEL 0.	

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL IDENTIFICATION - FJ-300-FMODL X70131	ANOLES MEASURED FROM INLET, DEGREES	FREG 40. 50. 60. 70. 80. 80. 100. 110. 120. 130. 140. 150. 160. PWL	.1 69.0 70.0 70.4 70.8 72.7 72.6 73.7 81.4 87.5 89.2 87.3 79.8 1	68.9 70.0 71.8 73.5 81.7 75.1 75.1 77.2 85.9 88.3 89.1 85.6 76.4	71.6 72.4 73.9 74.4 74.6 76.4 76.6 78.6 67.3 88.7 67.6 63.5 73.7	72.3 71.3 73.4 74.5 75.4 77.3 77.9 79.6 87.6 88.3 88.1 81.9 71.9 1 72 9 72 2 74 9 76 5 77 0 78 8 78 4 80 6 88 7 88 9 88 8 80 8 71 8 1	71.5 74.2 76.1 75.8 77.3 79.5 79	73.6 72.8 75.1 75.8 76.5 78.5 79.1 81.5 88.8 90.2 88.2 80.3 72.4	71.5 73.6 75.8 77.0 77.3 80.1 80.5 83.4 88.5 88.9 86.7 78.5 70.8 1	72.3 74.3 75.1 76.2 77.4 80.0 80.1 82.8 88.3 88.7 86.6 77.6 69.5 1	74.3 75.5 76.9 79.2 78.9 81.2 80.4 83.1 88.1 87.6 84.1 74.6 68.4	74.4 76.6 78.1 79.5 79.6 81.5 80.8 82.9 87.0 86.9 82.8 73.9 66.6 1	72.7 76.7 78.5 79.2 80.8 82.6 80.4 82.0 84.3 84.3 80.4 72.4 64.5 1 64.5 1	68.3 73.2 75.1 77.6 79.3 80.5 78.2 79.3 80.5 79.8 74.0 86.6 57.0	64.6 70.7 74.1 75.0 77.9 78.7 74.7 76.1 78.5 75.5 69.9 62.3 53.3 1	55.9 65.3 68.4 69.3 74.2 74.6 71.5 70.4 72.1 70.2 64.0 52.2 38.4 5 47.7 86.1 61.4 68.1 66.4 66.9 64.4 64.0 64.9 61.2 84.1 99.9 22.1 5	35.4 43.7 51.8 53.9 59.1 59.4 54.3 53.4 54.6 46.8 37.5 19.4	12.0 23.8 33.8 36.5 40.8 41.8 39.0 34.7 38.5 25.8 13.8	4.4 10.0 13.6 10.3 14.9 6.9 11.12	12500 16000	00000	0091		84.4 86.1 88.1 89.3 80.8 92.0 91.6 93.6 89.8 90.8 90.8 94.4 97.0 98.5 100.4 101.5 99.9 101.3 105	.0 94.4 97.7 99.0 101.6 102.7 99.9 101.3 106.0 105.5 103.1 95.3 67	DIAMETER RATIO 7.640 FREQUENCY SHIFT -9	TEST DATE 02-27-78 TAPE NG. N299 .IALPHA 5859 TAMB 28. LGCATION C41 ANECH CH AERO. RDG. ADH105 PAMB 29.5400 RELHUM 44.	TEST POINT ACCUSTIC RANGE S032.2 SQ CM (1400.00 SQ IN) - FULL 69.3	519

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ANGLES MEAS 70. 60. 90. 100. 67.9 67.0 87.4 67.2 68.1 88.6 69.0 88.6 68.1 88.6 69.0 88.6 68.1 90.9 90.5 90.5 90.3 99.4 92.2 91.7 92.6 93.2 94.8 95.6 93.0 94.4 95.6 95.2 93.0 94.4 95.6 95.5 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.2 96.9 95.0 94.2 96.9 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.4 95.6 95.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 94.2 96.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 95.6 95.0 9	FROM INLET, DEGREES	u. 120. 130. 140. 1			.8 96.1 100.5 103.9 107.0 1	7 96.2 105.1 108.4 109.6 1	5 101.3 106.6 109.4 107.1	6 105.1 108.5 107.7 103.1 1	5 105.8 108.1 108.3 101.9 1	2 106.1 109.9 107.5 101.4 1	8 108.4 111.0 109.0 103.0 1	109.7 110.7 108.7 104.5 1	3 109.7 110.5 108.0 104.4	0 108.1 109.7 106.6 103.7 1	5 105.3 107.1 103.9 103.0 1 6 103.7 105.1 101.6 102.9 1	5 102.9 101.5 97.9 98.2 1 6 98.4 98.8 96.7 94.9	.8 95.4 94.3 93.1 91.2 3 90.6 87.6 86.8 86.6	9 87.2 81.1 80.4 80.8 2 80.4 76.5 75.7 72.5	2 70.6 66.7 65.9 62.7	.1 119.9 121.6 120.6 117.8	385.00 48.00	. N299 I	SIZE .7 SQ CM (23.99 SQ
- OCD 0 4 00 4 4 00 CD D 00 00 00 00 D 00 00 00 00 0 0 0	ANGLES MEAS				87.9 87.0 87.4 87.2	67.9 67.9 69.0 66.5 6 1 6 6 6 6 6 6 6	88.1 90.9 90.5 90.5	90.3 99.4 92.2 91.7 92.3 92.0 93.1 93.3	92.6 93.2 94.8 94.2	93.0 95.2 96.9 96.6	94.5 94.8 96.8 97.2	95.8 97.0 99.0 99.4 1	96.7 98.2 100.6 100.5 1	99.7 100.8 101.8 100.8 1	100.5 100.7 101.6 100.5 1	97.8 99.6 99.9 96.9 95.0 97.0 97.4 93.9	91.0 91.2 92.2 90.9 87.9 90.0 89.9 85.5	83.1 81.8 81.7 79.9 75.5 74.3 73.7 73.9	67.7 67.2 67.8 65.6	109.4 110.8 111.9 110.8 1	FACTOR FREE JET V 1.000 FREE J	27-78 TAPE ANECH CH AERO. R	ACCUSTIC RANGE .2 M (40.0 FT) ARC

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		160.	76.0	74.1	73.5	73.3	7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	72.7	72.9	72.4	71.7	71.1	69.1	98	63.8	62.0	•	4 6 5 6 5 6	• 1										64.3	87.8			- FULL	
4	S	150.	- 1 -	83.0	61.4	78.9	0.7%	76.5	77.6	78. 7. 9. 0	77.3	76.6	10. 15. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	7.4	71.6	69.0	62. 4.	- K	23										0.0	-	FT -8	SB59 29.5400	SQ IN	
X7014	DEGREE	140.	86.9	87.6	87.2	85.8	0 6 0 6 0 6	85.0	86.2	85.4 4.0	84.2	83.3	82.2	200	76.9	73.6	68.	0 P	37.7	13.4								٠	97.1	101	су зні	ALPHA PAMB	S12E (1400.00 S	. apparent
FMODL	INLET,	130.	96.0	86.4	87.4	88.1	87.0 88.0	89.1	89.9	4 6	89.0	87.8	86.4	84.4	82.8	80.3	75.5	51.3	46.8	26.1									90.00		FREGUENCY	-	1	
FJ-400-FMGDL	FROM 1	120.	79.8	82.1	4	82.0	85.4 4.7	88.4	88.5	89.0	88.8	88.4	87.6	84.0 84.0	82.9	80.9	79.2	72.8	55.0	39.5	7							· ·	1.00			N299 ADH106	2 SQ CM	
ı Z	JRED	110.	72.3	73.0	75.3	77.0	70.0	80.3	80.7	81.7	82.8	83.0	82.9	81.3	80.2	79.1	76.3	9.00	53.9	35.7	Ø.								95.9	00.0	7.640		9032.2	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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DAY, SB	FJ-ZER-FMGD	INLET, DEGREES	130. 140							2 117.	.8 117.	.4 116. .7 117.	.4 117.	15.0 117.	2 114.	12.0 113.	.4 108.		• 1 •	ب ا	. 0	79.1 76. 73.1 73.	125.3 127.	I ALPHA PAMB			
R.H. STD.	EL (GRŒUND	ED FROM IN	0. 120.					1	50.0	7 108	5 109	7 110	.3 111		0 11.	400	107	. 7 105. .5 103.	_ _ _	6 0 0	.3 83.		.7 122.3	N294 ADH093	4		
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				FREG 50	69	1 00 52	160 200	250	. 6 . 6	930	800	1250	1600	5200	4000	0000	10000	12500	25000	31500	50000	63 000	OASPL		MGDEL 7000	523	

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			150. Pul					113.9 147.6	114.0 148.8	· -	9	116.1 152.5	115.7 153.1	- 01	8	106.5 150.2	104.8 149.9	.7 148	102.6 147.9	ر د د	94.9 145.2	88.0 144.0 84.1 143.2	. 6	73.4 141.1 66.0 142.3	125.5 163.9	REFRACTION COR TURBULANCE COR	TAMB	- MODEL 0.
}-		T, DEGREES	0. 140. 150.					.9 111.0 114.5	.6 112.6 11	4 116.7 117.	2 117.1 11	4 116.2 11	7 117.4 119.	0 117.2 116.	.0 117.7 114.	2 114.1 111.	3 113.	7 110.0 107.	4 106.1 104.	6 103.5	.0 100.7 gg. .5 96.9 95.	5 94.1 90. 6 89.0 85	.0 83.1	.1 76.8 74.	.3 127.8 128.6	C) 0. N) 48.00	IALPHA SB59 PAMB 29.3550	SIZE 23.99 SQ IN)
	1	SURED FROM INLET,	110, 120, 130					97.1 101.6 106			-	110.3	04.7 110.8.113	112.1	112.0 11	06.2 112.1 114 06.0 111.4 113	.4 110.6 11	. 0 . 601 6.	02.7 105.1 107	.5 103.1	. 6 100.0 1 . 9 97.7	93.5	ი	5 73.8	16.7 122.3 125.3	VELGCITY (FT/SEC) JET DIAMETER (IN)	. NG. N294 RDG. ADH093	154.7 SQ CM (
	DENTIFICATION	ANOLES MEASI	90. 100.					. 1 95.2	2. 24. 6 8. 8	6 96.7	98.0	3 100.4	4 101.5	9 101.8	.3 102.7 1	.7 102.6 1	0 102.7 1	0 102.0	99.9	2 98.1	9.25 95.00	. 9 89.1 83.0	0.2 79.1	1.6 73.4 6.5 66.8	112.7 113.6 11	FREE JET VE FREE JE	TAPE AERO.	RANGE 40.0 FT) ARC
			70. 80.					0.1 90.0	92.3	83.0	2 98.5 5 8.5	6 97.2	7 99.81	7 97.8	1 98.7 1	0.00	98.7 1	5.00	2 98.5	0.98.4	3 94.4	6 88 9 1 86 9	78.9	.1 64.3	109.6 110.9 1	SCALE FACTOR	02-21-78 C41 ANECH CH	ACOUSTIC RA
			60. 60.					.3 89.	.7 89.	92.	93.		4 98	2 8	1 98	. 60	.4 97	. 6 97	2 96		80	. 2 86. 80.	5 73.	2 61.	108.9 109.4 1	SIZE 000 C	TEST DATE LOCATION	ST POINT 7015
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

### 40, 80, 80, 70, 80, 80, 100, 110, 120, 130, 140, 180, 180, 180, 180, 180, 180, 180, 18							IDENTI	DENTIFICATIO	1. 22	FJ-ZER-FMODL	MODIL	X70151								
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ú		4																				-	•								42.70	-	FREE-JET 7.65 M/SEC (
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FOR BACKGROUND	40.0 FT.	7L X70170 7L X01400	REES	150.						7.	4 111.8	5 112.7	6 110.5 1	6 108.5	0 100	3 103.0	7 102.9	0 0 0	3 103.5	5 103.2	5 100.4	7 100.3 5 98.5	2 87.0	7 94.1	2	90.00	69.6	? ?	8 120.2 114		1A 3639 18 29.5400		SO IN		
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			•									-												CORRECTION - YES CORRECTION - YES	29,4 6 42,70	FREE-JET SPEED .65 M/SEC (306,0	
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-300-FMODL X70190 BACKGROUND FJB300-FMODL X01300	40. 60. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160.		8		81.7 86.0 44.6 85.8 86.7 89.3 91.4 83.6 98.3 104.4 108.3 111.5 111.4 144	. 6 86.2 87.1 86.5 86.3 90.9 91.8 94.0 101.2 108.5 112.4 114.6 1	86.0 86.5 88.5 88.8 88.7 82.0 83.2 85.5 102.8 108.8 114.2 114.7 105.9 140 86.6 87.1 89.4 89.2 83.7 83.6 84.8 87.9 104.9 110.5 114.3 114.3 105.9 148	89.6 67.9 90.2 90.7 92.0 94.9 95.8 99.0 106.9 111.7 114.1 113.6 103.5 148	91.0 89.2 91.8 91.3 93.1 95.5 97.1 100.3 106.0 111.3 113.2 111.4 100.6 147 89.3 91.4 92.9 93.2 94.5 97.1 98.0 101.7 108.0 110.5 113.6 110.8 98.4 147	90.0 92.0 92.8 94,6 97,8 98.9 102.6 109.4 111.4 113.8 108.5 98.1 148	91.9 91.6 92.9 92.9 94.2 97.1 95.5 102.7 109.3 11].5 114.2 107.4 97.9 146 92.8 92.8 94.6 94.1 95.4 98.3 99.9 103.3 109.0 112.7 115.1 108.1 98.3 149	94,1 93.9 94.4 94.9 96.0 98.9 100.5 104.7 110.3 112.1 114.2 108.1 98.4 148	94.2 93.3 94.8 94.8 96.1 98.7 99.9 104.1,109.7 112.0 112.9 105.3 97.2 148	93,7 94,1 95,4 95,3 96,3 96,7 100,1 103,6 106,8 111,3 110,5 103,1 95,7 147	93.4 93.8 94.2 95.0 96.6 99.2 99.8 103.6 108.1 110.3 108.8 101.4 94.2 146	93.1 93.5 94.9 94.7 36.6 39.7 39.1 102.3 106.6 103.1 107.0 101.2 33.0 146.9 92.2 93.6 94.3 94.3 96.1 97.8 96.2 101.1 104.3 107.1 104.5 99.2 92.7 143	90,7 92.6 94.4 94.9 96,1 97.6 97.0 99.6 102.1 105.4 102.9 97.9 91.4 145.8 86.7 90.4 91.6 93.0 95.7 95.8 94.2 95.8 99.4 102.0 99.4 94.6 90.1 144	85,8 86,9 89,7 80,5 83,8 84,5 81,8 92,6 97,0 97,1 85,1 81,5 88,1 143	83.8 83.7 88.0 89.8 88.8 88.4 88.5 89.1 92.5 95.1 92.5 65.6 86.6 62.4 143. 79.1 78.7 82.7 83.9 87.3 87.5 83.4 84.4 87.7 88.9 87.3 81.1 77.8 142	71.9 72.3 75.3 77.4 79.4 80.4 78.6 77.0 83.6 81.9 81.1 75.8 71.7 140	55,8 68.7 70.6 71.1 71.8 72.8 70.5 78.9 75.4 75.1 69.3 65.6 139 59.2 62.4 65.9 64.0 66.0 64.7 64.5 71.6 69.7 69.5 69.6 60.2 57.4 140	104.5 104.7	TEST DATE 02-27-78 TAPE NG, N299 IALPHA 5859 TAMB 29.12 LOCATION C41 ANECH CH AERO, RDG, ADHIOI PAMB 29.5400 RELMM 42.40	ACGUSTIC RANGE	00 7019 12.2 H (40.0 FT) ARC 154.7 SQ CH (23.99 8Q IN) - MODEL 89.61	535	

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AT, 36 40.0 FT.	ET, DEGREES	130. 140. 150.				7	109.7	08.9 112.6 114.1 08.9 113.0 114.4	113.1 114	112.5 113	10.0 112.8 109.9	114.3 109	113.7 110	112.4 106		108.5 104	106.3 103	102.7 100	100.0 0.7	93.5 69	88.0 87.6 84.9 81.8 81.7 78.2	4 77.5 70	.6 67.7 60	-	EC) 294.00 IN) 48.00	IALPHA SB59 PAMB 29.5	\$12E (23.99 SQ IN)	
:N K:N: 310: UAT, 38	SURED FROM INLEY	110. 120. 1				90.9 97.3 103	3 99.4		4 105.7	7 107.0 1	1 108.3	01.2 108.2	02.1 109.8	108.4	04.4 109.7	108.5	03.7 106.3	102.8	101.6	93.7	9 6	79.7	63.9	114.2 120.2 12	VELOCITY (FT/SEC) JET DIAMETER (IN)	E NG. N299 RDG. ADH101	154.7 SQ CM	
DENTIFICATION	ANGLES HEAS	90. 100.					90.3 90.	6 91.1 0 92.2	1 93.9 94.	5 95.2 95. 6 95.9 96.	1 97.6 97	97.8 96.	3 99.2 99.	4 100. 1 100.	100.	0 102.0 101.	2 102.7 100.	7 100.6 28.	000.0	4 92.4 90.	6 4 6 6 6 6	7 74.8 75.	.0 66.	7 112.2 111.6	REE JET FREE	TAPE	ACCUSTIC RANGE 2 M (40.0 FT) ARC	
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10.160								-					ф	FI	PO	OR	Q	UP	LIT	ΓY										SPEED 294.0 FPS)	
07/11/10																													4.	FREE-JET SP M/SEC (29	
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	- 4	×	IDENTIFICATION	ANGLES	200	73.2	74.3	77.2	4 77.8 78 7 79.3 79	80.0 79.2	80.3	80.7	87.2	62.0	82.6 80.3	80.0	75.7	67.1	. 4	17.0						95.8	102.9	AMETER RATIO	3	IC RANGE 2400.0 FT) SL	
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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-HONEYWELL PASE PRINTING SYSTEM - P1189-02

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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F. 70 PERCENT R.H. SID. DAY, SB. 40.0 FT. ARC

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	MEASURED FI	110,			7 68.6	88.9	90.2	94.0	95.6 1	97.7	98.6	N 00	100.9	3 501.5	101.2	100.0	99.2	2 96,1	2 66.3	3 81.5 3 76.1	7 70.1	0 50	-	ララ		154.7
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ì		6 0. 70.	***		17.6 87.	6	7 87.	1 90.	92.	92.	3 84	94.6 94.	2,8	26	97.6 97.	96.	98.	, 20 c	7 80.	6 63.	76.		20.0	SCALE ALC.	82	AC 12.2
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		-		. 50. 60. 70.				83.6 61.6 82.4 8	63.7 84.0 84.0	85.1 85.4 86.2	85.7 86.4 87.5	87.3 88.5 87.6 89.1 89.4 88.4	88.5 88.3 89.1	89.4 88.7 89.4 88.8 89.1 89.1	90.4 89.4 89.9	89.0 88.0 88.0	87.1 88.2 88.6 87.3 87.2 87.8	85.6 86.3 87.4 83.9 84.1 85.7	62.3 83.2 85.0 79.7 79.9 81.8	75.0 77.2 78.3	66.2 69.2 71.1 56.2 69.2 71.1	52.8 54.9 57.3 45.7 48.9 51.6	99.9 100.0 100.4 1	EST DATE 02-2	POINT ACOUST!	105	

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FLIGHT TRANSFORMED MODEL SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC
ENTIFICATION - FJ-ZER-FMODL X71
ANGLES MEASURED FROM INLET, DEGREES
FRED 40. 50. 60. 70. 80. 100. 110. 120. 130. 140. 150. 160.
150 miles (150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 miles 150 m
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81.8 85.1 85.4 85.5 85.8 85.8 80.4 81.6 94.0 100.4 103.0 104.1 105.3 102.5 140.5
86.7 87.3 88.5 87.6 88.7 91.3 92.4 95.1 101.5 103.4 103.7 104.2 101. 84.8 89.1 89.4 88.4 90.0 82.4 93.0 95.9 101.3 102.7 104.1 105.0 101.
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87.1 90.4 89.4 89.9 90.2 92.6 94.0 97.2 102.3 101.5 101.7 104.1 100.1 140.3
86.8 87.9 87.9 89.1 89.9 92.0 93.7 96.9 100.6 100.1 99.9 102.3 99.3 139.1
85.5 87.1 88.2 88.6 89.6 92.5 93.2 96.4 100.3 98.5 98.8 102.4 99.8 138.9 84.9 87.3 87.2 87.8 89.8 91.7 92.5 95.4 99.3 97.7 98.0 101.6 99.4 138.5
82.5 85.6 86.3 87.4 89.5 92.2 92.0 94.9 97.9 97.0 96.6 100.7 98.6 138.1
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OASPL 97.4 99.9 100.0 100.4 102.2 104.0 104.9 107.7 112.6 113.9 115.1 117.2 114.7 152.8
MODEL/FULL SIZE SCALE FACTOR FREE JET VELOCITY (FT/SEC) 0. REFRACTION CORRECTION - YES INPUT 1.000 CALC, 1.000 FREE JET DIAMETER (IN) 48.00 TURBULANCE CORRECTION - YES
TEST DATE 02-21-78 TAPE NG. N294 IALPHA SB59 TAMB 23.00 LGCATION C41 ANECH CH AERG, RDG. ADHO90 PAMB 29.3650 RELHUM 43.00
MODEL TEST POINT ACGUSTIC RANGE SIZE FREE-JET SPEED 7100 7105 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 0. M/SEC (0. FPS)

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	DAY, SB	FJ-400-FMGDL X71060	FROM INLET, DEGREES	130. 140. 150.				9	92.8 95.6 97	94.7	95.9 96.9 93	96.5 96.4 90	96.2 95.3 88	96.7 94.1 69	95.8 93.5 95	95.6 93.1	95.4 91.5 69	94.3 90.7 89	92,9 90.1 89	93.5 89.1 69	83.0	85.6 82.3 81	72.6 70.1 70	65.2 64.6 64	4 51.5 49	107.8 106.9 105.1	386.00 48.00	36 PAMB 29.5900	SIZE CM (23.99 SQ IN)	
	NT R.H.	DENTIFICATION - FJ-400	ANGLES MEASURED FROM	90. 100. 110. 120.			•	.8 77.9 78.	1 78.8 79.2 85.	2 61.1 82.1 88.	.2 82.0 83.6 89.	8 84.8 85.0	.9 85.4 87.8 93.	8 87.0 88.6 93.	6 88.3 89.7 94.	99.2 90	0 90.2 91.7	.8 80.3 81.4 94.	.2 89.6 91.0 93.	4 87 7 89 9 91	.5 84.9 86.0 87.	0 81.5 80.6 85.	7 72.7 74.0	0 67.3 66.0 71.	2 54.2 52.	0.4 100.3 101.7 105.4	FREE JET VELOCITY (FT/SEC) FREE JET DIAMETER (IN)	TAPE NO. N299 AERG. RDG. ADH1	JE FT) ARC 164.7 SQ	
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FJ-400-FMGDL	FROM INLET,	120, 130.	73	7 75	9 76 5 75	33	2 74	22	3 71	4 W C	4 66	200	6 31					91.3 90.9 91.3 90.9	FREQUENCY	N299 ADH136	2 SQ CM (140	and y
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

								OF	IG P	INA OO	1 R	PA QU	lGI AL		3								26.04 21.00	FREE-JET SPEED). M/SEC (0. FPS)
UNTRANȘFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NAISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY. SB 40.0 FT. ARC	IDENTIFICATION - MODEL FJ-ZER-FMODL X71070 BACKGROUND	ANGLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 60. 90. 100. 110. 120. 130. 140. 150. 160.		152	79.3 85.3 82.8	.2 86.8 88.4 89.1 91.5 97.7 101.3 105.1 108.8 107.2 1 .5 86.9 89.2 90.4 92.0 98.5 104.5 107.7 109.9 108.0 1	83.3 85.8 86.8 86.4 89.7 89.8 91.4 92.6 99.6 105.6 108.5 110.7 108.	86.9 86.7 88.0 89.5 89.9 92.0 93.4 95.8 102.0 105.6 107.7 109.6 108.3 144.	86.4 90.2 90.5 90.5 90.5 91.8 93.7 95.1 97.5 103.1 104.6 105.9 107.1 106.0 142	87.7 89.7 90.2 90.0 90.6 92.7 94.6 97.7 103.4 104.6 103.3 1	87.3 89.1 89.9 90.9 91.7 93.6 95.4 97.9 103.0 104.5 102.6 105.1 103.3 141.	87.3 88.3 89.1 89.6 80.4 93.0 94.7 97.4 102.2 101.0 100.9 102.1 100.6 1	88.6 89.1 90.5 93.1 94.5 97.4 101.3 101.0 99.9 101.6 100.1 1 88.3 88.8 90.6 93.0 94.4 96.3 100.7 99.7 99.0 100.9 100.3 1	84.8 87.2 87.3 87.9 90.0 91.9 93.2 95.5 99.7 98.3 97.6 100.1 82.9 85.5 86.9 87.3 90.4 92.5 92.7 95.0 98.0 97.0 96.2 93.1	80.2 84.3 85.2 86.6 88.9 90.3 91.2 93.3 95.7 95.1 94.2 96.8 96.7 1	73.2 80.4 81.0 83.1 86.9 88.8 86.9 88.5 80.4 90.2 88.7 92.0 91.3 135.	.0 76.2 79.0 79.9 84.0 85.4 83.2 83.7 88.0 86.5 85.2 87 .3 73.0 76.0 78.7 79.2 80.3 79.9 80.7 84.0 84.3 83.2 83	68.0 70.9 72.9 77.5 78.4 75.0 75.5 78.7 78.5 77.3 77.5 79.2 133	54.3 55.4 58.2 60.9 61.3 62.2 64.0 61.8 69.4 64.0 64.1 66.9 66.5 130	51.5 55.0 54.0 55.9 56.4 55.6 61.6 56.9 59.4 58.7 59	OASPL 98.5 100.4 101.1 101.5 104.3 105.0 106.3 108.7 113.9 115.8 117.2 119.4 118.0 154.6	TEST DATE 02-20-78 TAPE NJ. N294 IALPHA SB59 TAMB LOCATION C41 ANECH CH. AERO, RDG. ADHQ69 PAMB 29.3030 RELHUM	MODEL TEST POINT ACGUSTIC RANGE SIZE SIZE 7100 7107 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MODEL 0

1 DENTIFICATION ANGLES MEASULE FREQ 40. 50. 60. 70. 80. 90. 100. 11		
ANGLES MEAS 40. 50. 60. 70. 80. 90, 100.	ATION - FJ-ZER-FMGDL X71070	
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	10. 110, 120. 130. 140, 150. 160, PWL	
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89.3 89.3 90.8 89.6 90.7 92.8 94.2 86.4 90.2 90.5 80.5 91.8 93.7 95.1 87.7 87.7 87.7 87.7 87.7 87.7 87.7 87	.2 96.4 103.1 105.2 105.8 107.5 109.5 108.3 144 .1 97.5 103.1 105.2 105.9 107.5 106.9 142 .1 97.5 103.1 104.6 105.9 107.1 106.0 142 .5 97.7 103.3 104.7 104.7 106.9 105.6 142	ORIGI OF P
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66.3 68.0 70.9 72.9 77.5 78.4 75.0 59.6 61.8 64.3 67.0 69.5 70.5 70.0 54.3 55.4 56.2 60.9 61.3 62.2 64.0 47.8 48.5 51.5 55.0 54.0 55.9 56.4	.0 75.5 78.7 78.5 77.3 77.5 79.2 133 .0 68.6 73.8 72.3 70.9 72.5 72.6 131 .0 61.8 69.4 64.0 64.1 66.9 66.5 130 .4 55.6 61.6 56.9 59.4 58.7 59.4 130	
00.4 101.1 101.5 104.3 105.0 106.3 1	.3 108.7 113.9 115.8 117.2 119.4 118.0 154.6	ı ı
INPUT 1.000 CALC. 1.000 FREE JET TEST DATE D2-20-78 TAPE ND LOCATION C41 ANECH CH AERO, RD9	JET DIAMETER (IN) 48.00 TURBULANCE E NG. N294 IALPHA SB59 TAMB RDG. ADHO69 PAMB 29.3030 RELHUM	CORRECTION - YES 28.04
ACCUSTIC RANGE	SIZE 154.7 SQ CM (23.99 SQ IN) - MODEL Q	i .

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

40. 5	50. 60.	70.	00	ANGL ES. 90. 1	100.	10.	FROM INLET		DEGREES	150.	160.					
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9	8	23.	29.		a –	4	4.	6	•			149.1 148.2 147.9		ALITY	CE IG	
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			DIAMETER		RATIO	7.640	R.	FREGUENCY	Y SHIFT	9 F						
	TEST DATE		-20-78 1 ANECH CH		TAPE AERO. R	RDG. A	N294 ADH069	VI	I ALPHA PAMB	SB59 29.3030		TAMB RELHUM	2 8 .04 21.00			
TEST PO 7107	POINT 7.	ACGU:	ACCUSTIC RANGE .5 M (2400.0 FT)		SL	9032.2	SQ CM	\$12E (1400.00	ZE . 00 SQ	2	FULL		FREE-JET O. M/SEC (-JET SPEED EC (0.	D FPS)	

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL.

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UAY, SB ENTIFICATION - FJ-ZER-FMODL X760	60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, PWL		.3 95.6 96.9 102.1 106.9 110.8 114.2 113.9 1	2 91.3 92.9 94.7 96.3 97.8 105.2 112.8 115.4 117. 8 92.6 94.7 96.1 97.4 99.1 106.3 113.9 117.3 118. 4 94.0 102.0 97.2 98.8 101.5 108.9 115.0 118.1 1118.	. 8 98.1 98.2 99.8 100.8 103.1 111.6 115.4 118.5 119.2 116.1 1.7 98.7 100.1 101.7 102.3 104.5 111.4 115.1 119.4 119.6 115.0 1.4 97.9 99.0 101.1 102.7 105.6 112.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 115.5 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N294 IALPHA SB59 TAMB 27 ATION C41 ANECH CH AERO. RDG. ADHO80 PAMB 29.2980 RELHUM 25	12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MQDEL 0.
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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. SID. DAY, SB. 2400.0 FT. SL

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT, SL

												OF	RIC		VA OF		P, Qi	A G	SE VLI	IS														a		FREE-JET SPEED M/SEC (0. FPS)
		160.	PWL 87.0 168.6	-	.5 170	88.9 171.2	0 171	85.2 171.5	.1 170	72 7 150 3	4		291 G	66.1 166.0 68.2 168.6	7 164	.1 164.	9	39.2 162.1	191		159.1							-	0 191 8 90	<u>:</u>	277		- 3	TAMB 29.12	עבר נוסבו	FULL 0.
X76031	DEGREES	140. 150.	93 9 93 4	95.2	95.2	4.4	95.5	93.7	<u>.</u>	88.4	83.6	88.7 82.5	86.8 80.5	72.0	· –	69.4	.2 62.9	54.6 0.6	21.8	.7									106 2 103 9	108.9	1	NCY SHIFT -9			rans cereson	SIZE (1400.00 SQ IN) -
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59.0 DEG. F., 7	IDENT	ANG	70: 80. 90.		8 87	3 88.7 89.	900	9 99.2	.4 93.9 95. .8 95.4 96.	.5 96.0 97.	.3 95.3 97. .4 97.2 98.	99.6 100.	3 100.0 101	0.001.00	5 100.0 101	98.6 100.2 100.7 97.8 100.7 100.2 97.6 99.1 98.7	0 93.2 93.	5 84.1 83.	4 68.7 70.	110.2 111.3 112.2	ALE FACTOR FREE C. 1.000	02-27-78 C41 ANECH CH	ACGUSTIC RANGE 2.2 M (40.0 FT)
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC IDENTIFICATION - MODEL FJ-400-FMODL X76060 BACKGROUND FJB400-FMODL X01400 ANGLES MEASURED FROM INLET. DEGREES	40. 50. 60. 70. 80. 90. 100. 110. 120. 130.	4441 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	93.4 93.6 96.9 97.6 99.0 99.8 99.7 103.9 110.3 111.5 112.7 105.9 97.6 193.4 93.8 95.1 95.6 96.9 97.6 110.0 1 104.0 109.5 111.2 111.3 104.2 96.5 1 93.6 93.8 94.8 95.8 99.2 101.1 104.0 109.4 111.7 110.6 103.5 96.2 1 93.8 94.2 95.0 95.2 95.9 99.8 100.2 104.2 109.4 111.7 110.6 103.5 96.2 1 93.8 94.2 95.0 95.2 95.9 99.8 100.2 104.2 109.4 110.6 108.4 102.1 95.3 1 92.8 94.3 94.3 193.7 99.1 103.4 107.6 108.4 105.2 100.3 94.3 191.7 93.5 94.9 95.2 97.1 99.7 99.1 103.4 107.6 108.4 105.2 100.5 93.6 1 91.7 93.5 93.8 103.1 96.8 93.0 1 92.8 93.0 1 92.8 94.5 94.5 94.5 96.6 100.3 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5	85.2 87.0 89.2 89.2 93.1 95.2 91.8 92.8 97.5 96.4 92.8 90.2 86.8 143 84.0 84.0 84.0 86.7 88.2 87.0 89.2 89.1 89.8 81.8 82.8 87.5 96.4 92.8 90.2 86.8 143 84.0 84.0 86.7 86.3 87.8 83.4 84.7 88.5 88.3 86.1 85.6 78.5 142 71.9 72.6 74.3 77.0 78.6 80.4 78.8 77.8 83.9 81.3 79.4 75.0 72.4 140 66.1 66.4 68.0 70.6 70.7 71.8 72.6 71.2 78.9 74.3 72.9 69.8 66.3 139 60.3 89.0 62.3 65.4 63.6 67.0 65.0 65.0 71.7 68.4 66.6 60.5 58.4 139 105.5 106.0 106.7 106.9 108.3 110.3 110.8 114.5 120.2 123.0 125.0 121.8 116.3 160	ACCUSTIC RANGE 12.2 M (40.0 FT) ARC 154.7 SQ CM (23.99 SQ IN) - MQDE

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						ORIGI OF P(NAL P	AGE IS						
												ON - YES		FREE-JET SPEED 3 M/SEC (367.0 FPS)
ARG:		ž		4.14	44-	. 6 147.9 . 1 147.5 . 5 147.6	741	8444 744	147 147 146 146		10	N N	TAMB 33.08 Rel.Hum 43.70	FREE 117,96 M/S
147, 38 40.0 FT. A. 160L X76060	DEGREES	140. 150. 160	•	104.6 108.0 107.	3 111.5 108 9 113.1 108 9 113.1 107	109.6 107 109.2 107 107.1 106	6 108.3 107 2 109.7 108 2 108.3 107 3 107.2 106	1 105.8 105 8 104.1 104 3 104.3 105	1 103.1 105 1 102.2 104 9 96.1 101 9 94.8 99	80.8 90 85.8 90 81.5 84 73.5 78	1 122.2 120.	00	ALPHA SB59 PAMB 29.5700	812E 23.99 SQ IN) - MG
R.H. STD. DAY, S - FJ-400-FMODL	RED FROM INLET, C	10. 120. 130.	•	•	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 108 5 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 109.6 9 108.6 7 107.4	.2 105.7 1 .0 104.0 1 .7 100.8	.1 95.4 95 .5 91.2 88 .7 87.0 82 .0 80.8 77	.0 120.4 122.4	JCITY (FT/SEC) Diameter (IN)	N299 1	164.7 SQ CM (24
DENTIFICATION	ANGLES MEASUR	90. 100. 11		8	8 - 9 0 9 0 0 0 0 1 0 0	9 9 9	7 98.0 7 99.5 7 100.2	2 102.6 6 101.7 7 100.6	2 100.2 1 2 98.7 1 0 96.8 2 93.3	6 91.1 4 81.3 75.0	2.7 111.7 114	FREE JET VEL FREE JET	TAPE NO H AERO, RDO	AO.O FT) ARC 1
		. 70. 80.			7 88.3 89.7 89.2 91.	3 93.1 93.5 3 93.6 94.1 6 96.2 96.3	95.4 95. 96.8 98. 101.0 102.	100.2 99. 99.5 99. 99.7 100. 99.6 101.	99.4 100. 96.5 100. 98.0 100. 96.1 97.	89.3 89.3 77.7	110.7 111.7	<u>≮</u> ∪	02-27-78 C41 ANECH	ACOUSTIC R/ 12.2 M (40.
		40. 50. 60		e e	2 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20 00 00 00 00 00	6 102.3 102.2 102.2	2 100.2 100.3 100.3 100.3	4 100.2 1 8 98.8 7 97.4 8 96.9	2 92.7 4 86.8 5 83.3 7 76.2	.1 111.8 11	IZE C	TEST DATE LGCATION	TEST POINT 7606
		FREG	50 63 00 00			1250				31500 40000 50000 63000		Ĕ		MGDEL 7600

* .																										-							
									OF OI	: (SI I	AA (O)	L R	P/Q	AG UA	E	ון רדו					*										ET SPEED (367.0 FPS)	
																															33.08 43.70	FREE-JET 7,96 M/SEC (
		7	16	9 165.9	165	1 60 0 80	165	165	166	166	165	165	ָר ב מ	165	164	164	163	163	162.8	159.3								9 178.7	-		TAMB	FULL 11	
		50. 160		89.4 80.	.3	. 3 7 9	2 77.	.0 78.	.8 78. 7 76.	0 74.	.0 72.	30.		.7	.2 62.	.3	2 - 4 2 - 4 2 - 4 3 - 4	4										96.7 89.	.2 92.	Gi I	SB59 29.5700	IN) - FU	
X76061	DEGREES	140.	~ -	92.2	0	- 4	0	8	O 10) -	4	0	, c	u	-	- 0	0 0	0	14. 10.									201.01	04.2	ICY SHIFT	ALPHA S	S12E 400.00 SQ	
۲.	INLET,	. 130.	97.	9.69.6	8	9 6	89.	90.	G (4	89.	. 88	87.	60 4	89	79	. 23	Z 19	47.	27.	3 0								7 100.7	105.	FREQUENCY	- 48 -	5 ¢	error.
	RED FROM	10. 120	4 81.	8	.3 87.	7 87.	4 89.	.5 88.	2 K	8	.0 89.	.7 88.	- A	93	5 81.	.6 77.	5 7 7	55.	39	.5								6 99.	6 106.	. 640	9. N299 3. ADH99	9032.2 SQ	
5 .	ES MEASURED	100.	~ =	74.7 76	ed.	40	ı oı	က	ı, c		7	6	N 4	r Ø	•	4 (D 4	_	ю	-								93.00	9	RATIO 7	TAPE NO	S. S.	
IDENTIFI	ANGLI	0	72	7 20 00	76.	74.	79	79.	œ 6	8	82.	85.	- c	9 6	80	78	6, 7	60.	43	17.								93.0	103.3	AMETER R	푱	C RANGE	
		70. 80	.12.	6 79	.5 75	0.0	3 77.	.2 77.	4 c	.8	9 80.	9 79	5 6	796.	.0 79.	.8 78	2 /4.	.9 60.	.8 42	, 2 , 5								9.5	.8 102.	10	2-27-78 41 ANECH	ACGUSTIC 5 M (24	
			80 R	73.6 72	0	ص <u>ح</u>	9	0	iù 4	. O	6	ص <u>ا</u>		ń æ	a	oj e	N C	0	10	n								90.3	9.2		DATE 02	731.	
		6	2,5	7.2	75.	73	76.	76.	8 8	79	77.	77.	12	78	74.	7	0 0	46.	28.									200.00	96.		TEST	TEST POINT 7606	
		EG 40.	89	80 71.2	74.	74	2	77.	90.	78	76.	9	9.7	72.	69	9	2 60	38.	17.	88	8	8 8	88	8	88	00	00	PL 67.8	93.				
		Œ.	£ €				ั	CV	<u>ო</u>	Ñ	Ó	6	2 5	7 6	20	100	6 4 C 4	20	63	000	125	160					008	OASPL		II X SA	360 2	MODEL 760	OM-

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

									Ol	PIG		VAI OF	1	PA QU	IGI AL	E (S	3									000	FREE-JET SPEED . M/SEC (. 0. FPS)		
				Ę			148 1	149.7	151.7	153.5	154.1	154.7	154.3	153.7	152.3	151.4	150.8	149.7	148.7 7.84	147.5	146.4 145.9	145.5	143.3	144.4	165.3	TAMB 23.00 RELHUM 45.00	0		
0.0 FT. ARC	X76070		150. 160.				18 0 114 4	.3 115.	=======================================	9 115	1 116	6 113	6 113	110	4 107	11.0 106.0 10.1 105.6	6 105	2 102	500	7 97	9.	6	. 73.	.	28.5 125.1	8859 29.3630 R	IN) - MODE		
DAY, SB 40	FJ-ZER-FMADL	T, DEGREES	140.				L	-	1.3 116.4	.0 118.6 1	.8 119.4 1	2 120.6 1	7 120.4 1	5 119.0 1	3 116.0 1	1 113.4 1	1 112.4	3 109.4 1	7 107.1	.8 101.5	.6 97.4 .6 94.7	1.080 0.1	4 78.6	.4 73.6	.8 129.4 1	IALPHA	SIZE (23.99 SQ	•	
NT R.H. STD. DA	MODEL FJ-Z BACKGROUND	D FROM INLET	. 120. 130				4 109 K 107	-	7 106.6 113 A 107.3 114	110.1	11.21	12.3	113.2 1	13.8	113.6	8 113.2 115 1 112.8 115	112.1	109.7	107.4	102.3	10 G	5 50.5 92	82.7	4	0 124.0 127	N294 ADH088	4.7 SQ CM		•
ERCE	,	ES MEASURED	100. 110					. 6	88	6	(N 6	7	۰. و	4 W	103.6 105.8	9	0 60		6 100	a -	86.7 87.	.2 74.	<u>ښ</u>	115.0 118.	TAPE NG. AERG. RDG.	ARC 154		
١.	IDENTIFICATION	ANGLES	.00				7 02	9	90.0	.0 97.	ن د .	. 7 100. . 8 102.	2 101.	100.	. 7 102.		9 103.	8 104	3 103.	. 6 101.	2 98.	90.2 90.7	2 74.	.9 69.	12.8 114.6	11-78 ANECH CH	FIC RANGE 40.0 FT)		
59.0 DEG. F.	-		70.				7 00	20.0	91.2	94.2	96.0	- C	97.8	98.4	200.7	3 99.5	2 102.4 1	100.9	4 100.01	5 96.3	8 92.9 5 91.4	2 85.4	8 72.4	67.7	5 111.7 11	02-2	ACGUSTIC 12.2 M (4		
			60. 60				-	- ~	91.4 92.	4	oj e		10		- 4	100.3 100.	1	0	0.0	- ^	n c	80.0	- -	۲.	110.9 111.	TEST DATE LOCATION	T PGINT 7607	•	
			40.	7860 63 63	0 0	802	M d	67.	400 88.7	8	2	6 6	98	6	3 8	4000 98.9	9	S	2 8	0 8 4	80 6	40000 76.5	900	22	GASPL 108.2		MODEL TEST 7600 7	691	

				£,																-															
			h	•		·						0	RIO F	BII	Α <i>γ</i> Ο C	L R	QI P	lGi JA	E I	37													S		T. Tarabay
																							•								ON - YES		FREE-JET SPEED M/SEC (0, FPS)		
				5	J A L						49.7	151.7	52.7	54.1	153,9	54.7	53.7	153.2	51.4	51.2	50.6	149.7	148.7	7.0.0 0.0	146.4	145.9	143.7	143.3	T (2	TION CORRECTION Ance correction	TAMB 23.00 RELHUM 45.00	Ö		
9	40.0 FT. ARC	0.20	60	150, 160.						7 710 0 200	16.3 115.2	115	118.4 115.3	;	.7 115	118.8 113.9	4	•	111.0 106.0	1 105	109.6 105.1	ים מי	105.2 101.4	۰,	6 94	90.7 89.0	28	75.1 73.0		1.63.1	NEFRACTION TURBULANCE	 SB59 29.3630 RI	SQ IN) - MODEL	•	
SOUND PRESSURE	DAY, SB	-FMGDL X76070	INLET, DEGREES	130. 140.						•	- -	113.3 116	114.9 118.0	8 19	6 119	117.2 120.6	117.5 119	118.2 117	= =	115.1 113	114.1 112.4	- n	109.2 107.1	- 6	99.6	97.6 94.7	96.6	4	5 6	127.0 128.4	(FT/SEC) 0. TER (IN) 48.00	I ALPHA	SIZE CM (23.99 :		
D MODEL	= R. H.	IIGN - FJ-ZER-FMØDL	MEASURED FROM INLET	110. 120.			***			7 10	3 28 0 104 9	7 106	4 99.8 107.3	103.5	104.3 112.	9 112 113	105.9 113	106.9 113	2 107.7 113.6 6 106.8 113.2	107.1 112	2 106.9 112.1	106.1	104.8 107.	6 100.4 102.3	95.7 99.		80.6		20.00	0.81	VELOCITY JET DIAME	F NO. N294 RDG. ADHO88	154.7 80		
FLIGHT TRANSFORME	Ľ.	IDENTIFICAT	ANGLES ME	90, 100						0	2 0	95.0 96.	96.5 97.	98.9 100.	100.0 101.	102.	100.9 102.	101.6 103.	102.1 104.	102.3 103.	103.8 104.	8 104.9 103.1	103.5 102.	101.5 98	98.6 95.	92.7	9 6	74.4 76.	70 - 70	0.4.0	FREE JET FREE	TAPE	RANGE 40.0 FT) ARC		
	59.0 DEG			0. 70. 80						•	90.4	0.991.2	.3 93.7	2 96.0	9 98.1	0.0	93.4	1 99.1	2 60 60 20 60 60 20 60 60	100.9 1	2 102.4 1	100.00	4 100.0 1		9.26.8	5 91.4		.8 72.4	2 6/./ 66		SCALE FACTOR CALC. 1.000	TE 02-21-78 ON C41 ANECH	ACGUSTIC 12.2 M (4		
				40. 50. 60						•	2 6	7 91.4	0.0	6 83.4	.2 98.8	.e 96.0	1 99.9	1.68 0.	100.4	0 101.4	.8 100.7	9.99.69	.6 97.0		7 88.5 91	2 85.0 89	5 73.1 7	.7 66.1	58.7 54	111 8.011 2.801	MODEL/FULL SIZE INPUT 1.000	TEST DATE	TEST POINT 7607	•	
2				Ş	T.KEG	83	8 5	200	90					-						1						1	50000 69	ŀ		OASPL 106	JOH 1		MODEL 1		

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											60)RI F	GII PO	VA OF	L R	PA QU	GE	: I	S										a
															3.														SPEED 0. FPS
												•																23.00 45.00	FREE-JET M/SEC (
!				0 169.4		- -	- +-	4 172.0	,		-			3 166.2	_	1 164.1 9 163.6		161.4							1 162.7			TAMB 2	0.
	-		150. 160	.1 87 4 AB	· ^ 1	98 6	2 85	92.9 84.4	2 78	8 73	.2 72	70 70	200	8 57	30.	8 5	0	-							103.3 96.1		FT -9	SB59 29.3630	IN) - FULL
	JL X76071	r, Degrees	0. 140.	0 94.6 96.0	7.96.7	97.4 1 96 0	98.4	8 97.9	83.8	2 90.3	4 88.7	85.2	83.3	76.6	7.17	1 64.3 85.3	1 40.0	5 17.	·				•		106.7	109.3	SHI	SALPHA	SIZE 400.00 SQ
	J-ZER-FMODL	FROM INLET	o.	87.3 93. 88.1 94	90.9	1		93.5	i		ı			1											103.0 106.5		FREQUENCY	N294 ADH088	2 SQ CM (1
	ATION - FJ	MEASURED I	0. 110	.3 80.	7 83.	20 G	9 87.	60 60	5 87.	96.	.1 86.	3 6	93	1 0	.3 78.	5. 2. 5. 2.	0 55	37.	2						1.08.1	0 104.9	7.640	E NG.	9032.2
	IDENTIFICATION	ANGLES	ó	0 4	2 80	a a	9	83.4 84	~ 0	9 0	7	3 10	•	2 0	4	ol id	מ	٠. ٧	,						95.0 95	-	AMETER RATIO	AE	RANGE 10.0 FT) SL
			•	60 6	79.	70.0	4 81.	1.9 80.7	7 80.	700	.00	82.	98	90.	2 79.	74.	59.	40.							6.03.0	5 103.5	DI AM	-21-78 1 ANECH CH	ACGUSTIC RAN
			0	-	4	2	-	77.6 78.7	on u	4	-	א פ	<u>-</u> (9	Φ.	~ -	တ	41							9 6	66		TEST DATE 02- LOCATION C4	731.5
				2.07	7 73.	2 /3	.3 78.	1.4 75.7	.8 77.	7 78.	.3 78	9 //	75.	6 70.	.8 66.	5 6 5 6	3 39.	.6 18.				,			9.0	3 84.		TEST	TEST POINT 7607
			200	50 63 63 63				00 74 50 74	ŀ								00 27		8	2500 6000	88	88	50000	. 00	CASPL 84				MODEL TO 7600

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																											0.6	SE-JET SPEED
O FT. ARC				Į				.6 143.9	. 5 144.9 8 8 8 8 8 8	.1 147.	2	. 2 148. 1 8 148. 1	6 1	2	2 148	6 147.9	6		.1 148.	.3 147.6	0 147	.0 146.1 5 146.0	. 0	.5 143.	.7 143.1	.6 161.2	TAMB 39.00	7
0	160L X01400	DEGREES	140. 150. 160					-	09.4 112.1 109	7 112.4 104	111.01	14.9 110.3 99 14.4 107.6 97	.3 107.0	.8 105.5 8 105.5		2 105.0	1.04.1	3 102.6	5 101.8		9 96 6	83.	62.9	.3 78.0	75.9 72.0 68 70.2 63.3 60	24.9 121.1 115	HA SB59	<u> </u>
	IGUND FJB400-FMGDL	FROM INLET, DE	120, 130.					2		0.0110.0	4	2 2	3 112	112.0 1	2 113.3	112.3	112.3	10.6	110.31		.9 103.6	99.2	4 91.6	9 85.0	75.9 72.6	119.4 123.9 13	9.5	
J, 70 PERCENT R.H.	- 1	ANGLES MEASURED	. 100. 110.					6	8 6	9	93.7	0.00	97.4	98.6	. –.	100.1	0	0.00	101.9 1	3 100.0 103.0	98.0 1	a c	86.8	92.1	6 75.9 74.2 8 67.7 69.0	9	TAPE NO.	
59.0 DEG. F., 7	DENITERO	Y	70. 80. 90.					.2 86.8 88.	9 87.2 89.	3 91.1 91.	1 100.3 92.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 9 93. 9 96.	7 94.1 96.	4 95.0 96.	1 95.8 98.	4 97.2 99.	3 100.3 100. 5 102.3 102.	0 101.8 103.	5 100.5 102. 5 101.1 102.	6 100.5 101.	.9 97.2 98. o oi a oo	3 80.0 80.	.6 81.9 82.	.3 73.5 74. .9 66.7 68.	6 111.0 112.	-27-78	DUSTIC
			50. 60. 7					4.5 64.6	1. T	2 87.4	.1 88.8	2 G G G G G G G G G G G G G G G G G G G	0 92.8	7 91.4	92.7 94.2 93	1 97 4 95	6 100.4 99	3 99.7	1 89.3 1	.3 98.3 99 .7 97.6 7.	4 96.4	ω κ	.1 64.6	3.6 77.1	3.0 70.6 73 3.2 64.4 67	1 109.3 1	EST DATE 02	INT
			40.	FREG 50	63	100	160 200	82.3	83.8	60.0	86.3	86.6	89.3	. 100 . 100	53.	<u>د</u> ه	101.5	N -	97.1	0 0 0 0 0 0	88.9	87.7 86.0	. T.	74.1 7	63000 68.1 6 80000 62.1 6	GASPL 108.0 108.		MODEL TEST PO

							OI OF	RIG	INA OOI	- 1	PAG UA	E	3									FPS)
																				- YES - YES		JET SPEED CC (386.0
		-																		CORRECTION CORRECTION	39,00	FREE-JET
		Ę			141.0	144.6	146.2	47.4	47.6	46.0	0.00	0.0	900	20,7	50.0	49.2	47.9	44.3	162.5		TAMB	
		160.			06.9	0.8.0	05.7	07.2	06.7	07.2	007,00	07.6	06.4	07.2	7.50	96.5	87.3	70.3	120.1	REFRACTION TURBULANCE		MODEL
		150.			07.7	-	-	09.8	V. 10	-		,		- *	01.6	1		1		& F	\$859 29,3300	2
X76080	DEOREES	140. 1			.6.10	.3 11 E.	-4	6 4	0-	41	0 6	· - '	ن ها . 	- - •	2 4 2 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	- <	0	124.2 121.6	386.00 48.00	1	99
)				2 104	. 1 105 . 6 111	8 112	===		-	6 112	· '		- 4 4	_	1		1		ł	I ALPHA PAPE	\$12E 23.99
FJ-300-FMGDL	INCET,	130			0 100			-				· ·	7 11.5	- •	- 4 4	Ί	7 85.5	1	9 123.5	F1/8E ER (1	0,	₹.
FJ-30	RED FROM	120			2	ŀ		104.8		1		Τ,	108.7	1		1	•	74	.6 119.9	VELOCITY (FT/SEC) JET DIAMETER (IN)	N299 ADH110	7 80
- NO		110,			89.4	90.2	9.23	96.8	900	101	103.3	2	292	20.5	101.	94.1	92.0	69	114.0	VELOC JET D	RDG.	2
DENTIFICATION	ES MEASU	100,			99.9		91.6				9.00	41 1	103.3	603.6	100,4		24.0		113,1	E JET FREE	TAPE AERO. I	ARC
DENTI	AMOLES	8				80.	91.8	95.00 0.00	96.8	87.2	100	05,0	000		4.6	93,6	95.8	71.8	114.6	FREE		RANGE 40.0 FT)
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), SCALED, AND EXTRAPGLATED SQUND PRESSURE	.O DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT.	IDENTIFICATION - FJ-300-FMODL X76081	ANGLES MEASTRED FROM INLET, DEOREES	3, 110, 120, 130, 140, 160, 160,	A 71.1 70.6 71.6 72.2 72.2 73.3 76.7 67.6 69.5 67.5 79.4	73.0 73.1 84.6 75.2 74.6 76.4 83.2 89.6 91.3 87.3 78.8	0 76.0 75.0 74.8 76.3 76.4 78.2 85.5 90.5 91.4 85.6 78.6	2 76.8 76.0 77.8 78.6 78.4 79.6 87.1 90.0 91.6 83.1 78.5	78.1 77.5 77.9 79.3 79	6 76.9 77.0 78.8 79.6 80.7 82.3 88.8 90.7 89.4 82.8 78.3	7 78.5 77.5 79.2 81.0 81.3 83.5 88.7 90.7 88.2 81.4 76.4	.0 78.4 78.9 79.1 80.8 81.7 83.9 88.3 90.5 87.0 60.6 75.4 .6 80.5 79.3 80.8 82.4 82.6 84.4 88.2 89.7 86.0 79.2 74.4	7 83.3 82.5 84.1 83.8 82.3 83.9 88.0 88.5 85.1 76.1 72.4	.0 85.3 84.8 86.1 85.4 83.1 83.7 86.9 87.9 83.3 77.0 71.2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 81.9 82.9 83.8 84.7 83.0 82.8 84.9 85.2 79.6 74.4 68.0	.9 80.0 81.3 84.8 84.7 81.4 82.4 83.3 83.0 76.6 71.5 64.7	.8 79.9 80.6 83.7 83.3 79.1 79.6 81.5 78.2 71.6 65.8 57.5 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 4 . 74.0 . 76.6 . 78.0 . 76.8 . 70.9 . 75.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.7 . 76.	60.4 63.8 63.8 58.8 57.0 58.1 50.9 40.5 26.2 0.3	.6 40.1 44.6 45.6 45.6 48.7 38.2 42.1 30.4 17.2 10.3 17.8 18.6 19.8 19.4 13.2 15.2 0.7	162				《《《《《》 《《《》 《《》 《《》 《《》 《《》 《《》 《《》 《《》			90.5 92.3 92.6 94.5 94.5 94.4 99.0 101.7 101.1 95.6 69.2 180.1	3 102.6 103.1 106.2 106.1 102.9 103.3 107.0 107.8 104.6 98.2	DIAMETER RATIO 7.640 FREQUENCY SHIFT -9	TEST DATE 02-27-76 TAPE NG. N299 IALPHA 5859 TAMB 39.00	TEST POINT ACQUISTIC RANGE S032.2 SQ CM (1400.00 SQ IN) - FULL 117.65 M/SEC (
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 40.0 FT. ARC

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL IDENTIFICATION - FJ-300-FMGDL X76101	ANGLES MEASURED FROM INLET, DEGREES	40. 50, 60. 70. 80. 90, 100. 110. 120. 130, 140. 150. 160.	71.7 72.7 73.3 52.3 73.8 74.9 74.8 75.7 82.0 90.6 92.8 92.5 86.1 167	73.7 74.0 76.1 56.0 81.5 77.4 77.8 78.3 86.4 92.2 95.7 93.7 86.4 169	74.5 75.3 76.7 57.5 78.0 78.2 78.7 80.9 88.2 92.5 95.6 93.6 85.7 169	74.5 78.7 80.4 60.8 80.9 81.8 81.0 83.1 88.5 92.3 96.6 91.3 83.0 169	80.6 80.8 81.6 61.3 81.2 82.2 82.3 84.1 89.2 93.9 96.1 89.6 81.9 169 89.3 85.5 83.8 65.6 80.9 81.7 81.6 84.3 89.3 93.9 95.5 88.1 80.7 170	86.0 87.5 38.2 68.5 87.4 83.7 82.9 84.6 89.8 93.4 94.1 86.0 78.6 69	85.8 87.4 88.5 67.7 88.1 88.2 84.3 85.5 89.0 92.5 92.1 83.7 75.8 169 84.5 86.1 87.3 66.0 85.5 86.1 85.5 85.7 89.6 92.9 90.3 81.3 74.3 169	83.5 84.4 85.9 64.9 85.2 85.2 86.1 86.8 89.5 91.9 89.1 80.6 72.8 169	82.4 83.5 84.8 64.8 84.7 86.6 85.5 87.2 90.1 80.4 87.6 78.6 71.0 169 81.0 82.9 84.5 65.0 85.3 86.0 85.1 87.6 89.5 89.8 85.9 77.7 69.7 168	8 82.2 83.6 54.6 84.8 86.3 84.7 87.1 87.1 87.6 83.5 75.0 66.7 168	74.4 78.2 80.3 62.4 83.7 84.4 81.9 83.0 83.5 82.9 77.5 69.4 59.5 167	70.6 76.2 79.0 59.6 82.6 82.4 78.6 79.6 81.2 78.8 73.2 64.7 55.6 167	54.2 61.3 67.1 50.3 71.2 70.9 67.9 67.4 68.0 65.3 57.2 41.5 24.0 166	41.8 49.7 57.5 39.8 64.1 64.8 58.6 56.9 57.5 52.0 41.7 22.8 166	10.0 19.6 20.6 19.9 13.7 15.2 3.4	70	16000 20000 25000	 <u>.</u>	1	GASPL 84.8 95.2 96.3 76.3 96.3 96.5 PNL 100.5 101.9 103.5 84.0 105.5 105.6	PNLT 101.7 101.9 104.2 84.0 106.7 106.9 104.2 104.8 107.8 109.2 108.7 102.2	DIAMETER RATIO 7.640 FREQUENCY SHIFT -9	TEST DATE 02-27-78 TAPE NG. N299 IALPHA SB59 TAMB 38.0	MODEL TEST POINT ACGUSTIC RANGE 7600 7610 731.5 M (2400.0 FT) SL 9032.2 SQ CM (1400.00 SQ IN) - FULL 90.83	

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											38.00 53.70	FREE-JET 96 M/SEC (
NC NOISE		PWL		2 4 4 5 6 4 7	150 149 149	7 150.2 8 150.6 7 151.0 7 150.8	05 04 04 04 04 04	84 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		3 143.1 2 143.6 8 162.9	TAMB 3 RELHUM 5	.117.	•	
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FJ-400-FMODL FJ8400-FMODL	r, DEGREES			109 110 113	116.6 1 117.6 1 116.7 1	116.0	4.000	108.5 106.1 104.2 101.2	96.9 94.6 89.7 83.1	. 7 . 2	I ALPHA PAMB	SI ZE 23.99 SQ		
0 . r. r.	FROM INLET,	•	•	5 10 1 10 5 10	. 5 11 . 5 11 . 5 11	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	411 4 11 4 11 4 11 3 11 3 11 3 11 3 11	. 6 109 . 3 108 . 0 104	97.3 97. 91.9 92. 86.6 86.	0 0 4 1	N299 ADH116	7 SQ CM (
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, 70 ICAT	ANGLES HE 90. 100.				@ 01 to 0	V 62 A 10	8 0 0 2	10 to 10 to	97.9 95. 92.9 91. 90.7 87.	40 0	T CH AER	RANGE 10.0 FT) ARC		
59.0 DEG. F.	70. 80.			0-40	6 101. 2 92. 5 93. 6 95.	.5 96. .3 97. .2 104. .5 103.	. 1 101. . 1 100. . 6 100. . 8 100.	.0 100; .5 99; .9 100; .0 99;	3.0 97.0 2.5 92.4 6.4 90.3 0.3 82.1	.0 74. .9 67. .6 112.	02-27-78 C41 ANECH C	ACCUSTIC F		
	.09			88 . G . G	90.1 93.0 95.3	99.0 104.0 103.4 101.8	100.2 1 100.2 1 100.4 99.5	99.2 97.7 97.4 95.3	93.6 93 90.8 92 85.4 86 78.3 80	71.3 65.2 111.7 1	TEST DATE 02 LOCATION C2	<u>a</u>		
	40. 50.			3 85. 7 86. 7 87.	5 - 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		4 98. 4 98.	3 97. 2 97. 1 96. 8 93.	88.6 90.3 86.8 86.5 82.2 82.4 74.6 75.3	. 1 69. . 9 62. . 7 111.	TES	TEST POINT 7611		
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																										-1		CORRECTION - YES CORRECTION - YES	38.00 53.70	FREE-JET .96 M/SEC (
2	FT. ARC			1. 160, pu						8 110.6 145.9	.5 146		9 1	- 0	111.2	1 111.4 151.5	91	108.8	108.0	107.5	6 108.1 150.3	105.7		92.8 149	5 80.7 146.8		123.2 164.1	REFRACTION C TURBULANCE C	\$859 TAMB 29.3300 RELHUM) - MODEL 117	
PRESSURE LEVE	STD. DAY, SB 40.0 FT.	DL X76110	T, DEGREES	0. 140. 150		•	•		3	.4 110.1 112.	113,9 1	5 116 6 116	9 116.2 11	.4 116.3 111.	.8 115.9 111.	.7 116.1 112 .7 116.0 113	6 115.4 111	3 111.7 1	5 111.1 107	7 108.1	107	102.3 101	96.7	90.5	84.6 80.2	70.4	-	C) 387.00 N) 48.00	IALPHA SB58 PAMB 29.	\$12E 23.99 SQ IN)	, defend
MODEL	₩. H.	- FJ-400-FMODL	SURED FROM INLET	110. 120. 130						5 97.4 1	.4 100.0 109 .4 100 E 110	.5 104.2 111	.0 105.5 111	3 107.3 112	.6 108.7 113	102.7 108.9 114 103.4 110.5 114	110.2 114	110.7 114	111.0 112	108.5 110	108.0	105.6	98.4	93.5		74.1	5.4 121.0 125.1	VELÖCITY (FT/SEC) Jet diameter (IN)	5. N299 3. ADHI16	164.7 SQ CH (
T TRANSFORMED	., 70 PERCENT	DENTIFICATION	ANGLES MEASU	90. 100. 1					4 0 7	2.08 0.		0 94.4	.4 95. 1 97	.6 98.1	7 89.7	99.5 100.0 100 02.9 101.7 100	4 103.9	6 105.4	0.00.00	5 104.1	5 103.4	2 100.2	9 94.0	.7 89.5	79.0	.6 70.9	4.0	FREE JET VEI FREE JET	TAPE NO.	RANGE 40.0 FT) ARC ' 1	
	59.0 DEG. F.			70. 80.					* * 0*	90.5	2 K	4 103.9	.1 94.5 6 95 8	0.00 0.00	3 98.3	106.5	4 105.2 1 205.2 1 3 201.2	6 104.4	0.000	2 104.6	103.9	1 103.7	5.9 96.4	3.4 94.8	78.2	2.2 71.7	4 115.8	LE FACTOR . 1.000	02:27-78 C41 ANECH CH	ACGUSTIO	
				50. 80.					6	0 90.3	7.00	4 93.7	7 96.8	8 97.7	2 98.9	09.3 108.3 1	6 107.5	8 105.7 1	0 105 0 1	5 104.8	4 102.3	1 101.6	1 98.0	3 92.7	9 80.5	1 70.4	8 116.5	SIZE SCA 000 CALC	TEST DATE LOCATION	TEST POINT 12.	
4				FREG 40.	30	හ ව	100	125 160	0	90.3	- C C C C C C C C C C C C C C C C C C C	94.1	97.6	10.00	99.5	109.6	107.1	106.6 1	106.2	104.2	102.9	99.7	95.5	90.2 87.0	79.4		GASPL 117.5 1	MODEL/FULL INPUT 1.		MODEL TEST 7600 76	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

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										FREE-JET SPEED
		160. PM			92.1 170.0 90.4 168.7 77.6 169.2 75.6 166.7 73.6 166.4 71.7 168.2 70.6 167.7		164.5 162.6		93.3 101.6 95.6 96.7	TAH RELHG FULL
X76111	DEGREES	140. 150.	96		92.8 67.2 91.7 85.3 68.6 80.3 86.9 80.3 86.6 76.9 84.0 75.7 80.2 74.2	1			3.9 89.4 7.1 101.4 7.1 101.4 SHIFT -9	SIZE (1400.00 SQ IN) -
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DENTIFICATION -	ANGLES MEASURED	100.	5 5 6 6 6 6 6	0 78.9 6 4 79.6 6 3 81.2 6 9 81.3 6	62.7 63 64.6 63 65.0 65 65.6 65 65.8 66 64.8 65	400000	20.1 13		2 96.1 96.1 3 103.3 104.3 3 103.8 104.3 3 RATIO 7.640	TAPE NG. AERG. RDG. 3E FT) SL 9032.
1901	***************************************	70. 60. 90.	71.8 72.7 74. 72.1 76.4 75. 73.8 85.8 76. 75.5 76.3 77.	.9 77.6 79 .1 78.6 80 .4 79.8 81 .7 81.3 80	86.9 88 84.8 88 84.8 88 84.0 85 84.1 85 84.1 85	6 83.4 9 76 8 2 76 8 0 64.1 6 45 8	9. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		95.0 96.0 96.2 03.0 105.2 105.3 03.5 106.5 106.3 DIAMETER F	02-27-78 C41 ANECH CH ACGUSTIC RANGE .5 M (2400.0 F
			71.5 71.9 7 72.1 72.6 7 73.1 74.4 7 76.3 77.3 7	3 76.3 2 76.1 3 79.2 7 83.8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	74.9 74.9 66.6 60.6 70.1	 5.		94.4 95.4 01.1 102.6 01.1 103.4	LOCATION C
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				P4 L		٠.٧) N -	1.6	 	5.5		V 0	- a	4.6	6 6	00	0.0	0.4				MB 24	1	ö		
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, . }	FMODIL	DEGREES	140.			113.0	4.7.7	119.6	119.7	120.9 1	120.2	119.4	116.1	4 0 - R	10.9	106.3	1.66	80 E	78.3		•	ALPHA	1	SIZE 23.99 SQ		
7	FJ-ZER-FMODI	INLET,	130.			109.1	7 5	116	116	116	116	118	117	116	===	109	5	94.6	92	128		_		5 5		i i
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•			.09			<u>a</u> a	83	9.53	_	101	100.	<u>6</u> 6	102		101	9 9	93.	86.2	72.	113.		TEST DATE				
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			4			87.6	i o -			-1				9 9				200						DEL TEST 7600 76		,

ANOLES MEASURED FROM INLET, DEGREES 40. 90. 100. 110. 120. 130. 140. 150. 160. PHL 92.0 94.8 96.5 98.9 103.8 103.8 109.1 113.0 116.5 116.1 148.7 95.6 98.0 101.1 100.2 113.0 116.5 116.1 148.7 95.6 98.0 101.1 100.2 113.2 113.9 116.8 184.1 95.7 96.6 98.0 101.1 100.2 113.2 113.9 116.8 184.1 95.0 97.3 98.7 100.2 113.0 116.4 113.2 113.9 116.8 184.1 97.9 99.8 100.1 100.4 113.0 116.4 113.0 116.8 184.1 97.6 99.9 101.1 100.2 113.2 113.0 116.8 184.1 97.9 99.8 100.1 100.4 113.2 116.9 120.9 117.1 118.2 115.5 116.1 113.0 116.8 184.1 101.1 101.1 101.1 101.1 101.2 184.9 99.4 100.1 104.2 107.3 113.5 116.0 120.3 117.7 134.6 115.5 116.5 115.5 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 110.2 114.9 11.1 110.2 114.9 11.2 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 114.9 11.1 110.2 11				ORIGINAL PA OF POOR QI	GE IS			FREE-JET SPEED M/SEC (0. FPS)
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2. 2 ACG	ON -	90, 100, 110, 1	92.0 94.6 96.5 96.9 1 94.1 95.7 96.6 99.0 94.1 96.0 97.3 99.7 95.3 97.6 100.3 103.4 1	97.6 99.9 101.1 104.5 101.8 105.1 103.8 105.1 101.2 103.3 104.2 107.3 100.0 102.5 103.3 105.2 108.1 104.5 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 104.6 105.3 108.8 103.6 105.8 103.8 103.6 105.8 103.8 103.6 105.8 103.8 103.6 105.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 103.8 10	103.4 105.3 106.4 109.4 103.4 105.6 105.0 105.8 108.4 108.6 103.5 105.0 105.8 108.1 102.8 104.2 103.6 106.7 102.4 103.9 102.1 105.0 101.9 98.9 102.1 105.0	94.1 94.2 93.1 91.6 91.9 87.9 83.7 85.2 83.4 75.4 77.1 77.1 69.8 73.5 70.0	FREE JET FREE TAPE CH AERG.	RANGE 0.0 FT) ARC 154.7

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P 83.1 86.1 85.6 87.5 88.1 90.0 91.9 94.6 97.8 104.4 109.3 113.0 112.6 145 84.0 85.8 86.8 86.9 88.5 90.6 92.0 94.4 98.9 106.7 111.1 114.8 112.5 147 86.3 86.6 88.0 87.7 89.3 91.4 92.3 94.7 100.2 109.8 114.4 115.6 111.3 148 86.3 86.6 88.0 87.7 89.3 91.4 92.9 96.5 101.5 111.1 116.0 112.5 147 86.9 87.5 89.4 88.8 92.4 92.5 93.9 96.5 101.5 111.1 116.0 115.7 108.6 149 87.8 86.3 90.6 89.9 100.5 94.3 95.2 98.7 103.6 112.2 116.6 114.5 105.9 149 90.1 88.5 91.1 91.7 92.8 94.9 95.2 98.7 103.6 112.2 116.6 114.5 105.9 149	40. 50. 60. 70. 80. 100. 110. 120. 130. 140. 150. 160. 83.1 86.1 85.6 87.5 88.1 80.5 91.9 84.6 87.8 104.4 109.3 113.0 112.6 143 86.3 86.6 88.0 87.7 89.3 91.4 92.3 94.7 100.2 109.6 114.4 115.6 111.5 147 86.3 86.6 88.6 89.8 80.5 91.4 92.3 94.7 100.2 109.8 114.4 115.6 111.5 147 86.3 86.6 88.9 100.5 94.4 98.9 105.5 111.1 116.0 115.7 108.6 149 80.1 88.6 91.1 91.7 92.8 94.3 95.7 103.6 112.2 116.6 114.5 105.9 149 90.1 88.6 91.1 91.7 92.8 94.3 95.9 105.9 112.5 116.9 110.6 101.3 149 92.0 93.6 94.4 95.2 97.1 98.7 102.2 112.3 115.9 110.6 101.3 149 92.0 93.6 94.4 95.2 97.1 04.7 107.2 112.3 115.9 110.6 101.3 149 92.0 93.6 94.7 102.4 107.2 112.3 115.9 110.6 101.3 149 92.0 93.6 94.4 95.2 97.1 02.7 107.2 112.2 115.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 109.7 99.1 149.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 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F83.1 86.1 86.8 87.8 86.1 90.0 91.9 94.8 97.8 104.4 109.3 113.0 112.6 148 84.0 85.8 86.6 86.9 86.5 97.6 92.0 94.4 96.9 106.7 111.1 114.8 112.6 148 86.3 86.6 86.9 86.5 97.6 92.3 94.7 100.2 106.7 111.1 114.8 112.6 148 86.3 86.6 86.9 86.5 97.6 92.3 94.7 100.2 106.7 111.1 114.8 112.6 143 86.3 86.6 89.9 100.5 91.4 96.9 106.7 111.1 114.8 112.6 143 86.9 87.6 89.3 90.7 100.2 100.5 111.1 116.0 115.7 106.6 149 87.8 86.3 99.9 105.9 112.7 116.6 143 87.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	40. 60. 60. 70. 80. 90. 100. 110. 120. 130. 140. 160. 160. 160. 60. 70. 80. 90. 100. 110. 120. 130. 140. 160. 160. 160. 160. 160. 60. 60. 70. 80. 90. 100. 110. 120. 130. 140. 112.6 148 84.0 85.6 86.6 86.6 86.5 95.6 95.0 94.4 95.8 104.4 109.3 113.0 112.6 148 86.3 66.6 86.0 87.7 89.3 91.4 92.3 94.7 100.2 109.0 114.4 119.6 111.3 148 86.3 86.5 96.8 90.0 95.2 94.7 100.2 109.0 114.4 119.6 111.3 148 87.6 96.3 90.1 95.2 97.1 99.5 105.0 112.2 116.6 114.5 105.6 143 90.1 90.1 96.2 93.6 93.8 95.2 97.1 96.7 99.3 107.2 112.2 116.6 114.5 103.9 149 92.0 93.6 93.6 93.8 95.2 97.1 99.7 107.2 112.2 115.6 114.5 103.7 91.1 49 92.0 93.6 93.8 95.2 97.1 99.7 100.2 102.0 112.8 115.3 103.0 99.2 149 92.0 93.6 93.8 95.2 97.1 99.7 100.2 113.7 103.6 114.8 107.7 99.7 100.0 103.0 103.9 14.8 113.7 106.4 99.7 100.0 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.7	40. 50. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. 160. 160. 160. 160. 160. 160. 16	40. 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 160, 160. 63. 66. 69. 60, 70, 80, 90, 100, 110, 120, 130, 140, 160, 160. 65. 69. 69. 69. 69. 69. 69. 69. 69. 69. 69	ANOLES MEASURED FROM INLET, DEGREES	40. 50. 60. 70. 80. 100. 110. 120. 130. 140. 150. 160. 160. 160. 160. 160. 160. 160. 16	40. 60. 60. 70. 80. 90. 100. 110. 120. 130. 140. 150. 160. PHL 83.1 86.1 86.6 87.5 88.1 80.0 81.9 84.8 87.8 104.4 109.3 113.0 112.6 145.9 84.0 87.8 104.4 109.3 113.0 112.6 145.9 85.1 86.2 86.4 86.5 10.5 10.5 10.5 111.1 14.8 112.6 147.3 86.3 86.5 86.6 86.5 86.5 86.5 86.5 86.5 86.5

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					-					,												YES YES		SPEED 387.0 FPS	
																						CORRECTION - V	38.00 54.60	FREE-JET 96 M/SEC (
ARC		1			מוּ	.8 149.0 149.0	9	_	ი -	4	 	2	 N -		- 01	01	22 AZ	-	- N	6 C	_	REFRACTION CONTINUE TURBULANCE CONTINUE	TAMB (MODEL 117.	
40.0 FT.	வை	150. 160		5	16.0	114.9 110	113.5	112.4	109.7	111.0	110.7	109.2	107.4	106.5	105.9	104.8	97.6	94.2		75.7	124.3 1		SBJ9 26.3300	SO IN - IK	
.3B X76	ET, DEGREE	130. 140.		02.5 106.4	41.	10.2 114.9	2 115	9 115	3 14	7 115	0.4	2 114	5 1 2	4.	8 107	2 105	2 - C	96 0	- 1C	80	7 126	SEC) 387.00 (IN) 48.00	I ALPHA PAMB	\$12E (23.99	
R.H. STD. DAY, - FJ-400-FMODL	ED FROM INLET	. 120.		3 95.5	100.00	9 102.0 1	1 106.2	4 106.5 1	5 108.0 1	6 108.9	4.011	110.7	2.111.2	0 110.9	108.8	9 107.8 1	4 106.5 1 7 102.7 1	5 99.6	200.7 6 90.7	3 85 7	6 121.5	JCITY (FT/SEC) DIAMETER (IN)	N299 ADH117	54.7 SQ CM	
., 70 PERCENT R	ANGLES MEASURED	100. 110		- 1	, m	93.2 94.	10	.4 99	100	99.4 102	100	3 105	100	6 107	4 105	5 104	. 8 102 . 5 98	6 94	85.0	6	0 116	E JET VELOCI	TAPE NO.	ARC 1	
DEG. F., 70 1 DENT I	ANGL	90.		9	, a.	4.2 92.8	7 95.	.96 .6.	6. 10 7. 00 7. 00	.2	200	104	3 106.	0.105	7 105	.7 105.	. 8 102.	2.0	8.0 87.4	.6 78.	.7 115.	OR FREE	сн сн	IC RANGE 40.0 FT)	
58.0		70.		8	o (V	90.8	94.4	95.1	96.2 27.2 8			105.4	. a	104.4	N O	9	102.6	96.7	1 88.6 88	ماد	114.8	SCALE FACTOR	i	ACCUSTIC 12.2 M (4	
		50. 60.		900	0.0	92.3 92.8 93.6 94.2	.7 97.	.7 96.	2.00	2 102.	9 000	0 106.	100	0 105	ا ا	.7 103.	. e	.6 98	90	0.0	9 116.	\$1 ZE	TEST DATE LOCATION	POINT	
		0		 000	0 0 0	93.0	87.9	97.3	00 00 00 00 00 00	112.2	100	106.0	106.6	105.2	103.0	102.01	98.1	96.6	0 00	90.4	117.5	MODEL/FULL INPET 1.		DEL TEST PO 7600 7614	

)R)F	IGI P	IN/	AL OR	P	A(SE AL	i is												SPEED 307,0 FPS)	, T. C. C. C. C. C. C. C. C. C. C. C. C. C.
																														54.60	FREE-JET .96 M/SEC (
		160.	2 16	.4 166 .1 167	7 167	.2 166 -166	80.3 167.0	6 168	5 168	. 1 168 . 0 168	8 168	1 169	. 2 168 168	9 168	169	.8 168 0 167	7 167	166.8	163.2							•	95.9			RELHUM	FULL 117	
X76141	DEGREES	140. 150.	1 91.2	20.00 20.00 20.00	5 89.3	98.1	91.6 64.8	92.0	04.1	82.0	78.8	177.3	76.1	71.8	66.2	5 56.7	25.6	9.								98.0	8 100.5 8 100.5	SKIFT -9	1	PAMB 29.3300	- (N1 08 00	
-400-FMODIL	INLET,	130.	.8 89.0	80.08 4.00.0	.0 90.8	90.4	92.4	2 C	1 92.0	92.0	9 69.9	1 69.1	3 87.0	0 83.4	6 2 6	. 7 7 6 6 7 6 6 7 6	3 51.8	0 31.6	~							102.8		FREQUENCY			SI ZE 2 CM (1400.00	, which is
10N - FJ	EASURED FROM	. 110. 120	3 80	0 69 6 89	79.5 87	. 8 87 . 7 88	82.6 89	84.2 90	85.1 90	69	86.6 89	86.2 89	. 5 87 1 86	83.4 85	80.2 82	75.0 77	0 59	40.4 43	14.8 16							86.3	0 104.7 106.5	7.640	5	RDG. ADH1	9032.2 80	
IDENTIFICAT	ANGLES ME	90. 100	.7 73.	9 9	.3 77.	7.0	8 81.	1 82.	5 83.		.3 85.	.7 85.	94	.7 82.	.2 80.	2 69	59.	4	20.		•					0	106.8 104.0	DIAMETER RATIO	TAP	CH AERO	1C RANGE 2400.0 FT) SL	
		70. 80.	L 6	. 6 . 6	.8 76.	4 77.	78.8 80.0	7 84.	2 85		.0 84.	.7 84.	6 8 64	.1 84.	4 83.		3 64.	47.	. 20.							94.2 95.	04.0 106.9	10 DI A	02-27-78	1 ANECH	ACGUST 5 H (
		50. GO.	.7 72,		.3 77.	. 3 . 6 . 6	8.5 79.8	95.	9.00	. 8 . 6 8 . 5 8 4	.4 83.	.6 83.	2 83.	.8 80.	.5 79.	. 4 . 69	.5 57.	0. 1	•							7.7	6 103.8			LOCATION	POINT 731	
		ġ	69.6	72.5	75.9	76.3	76	64.7	60.0	 	81.2	79.6	7.5	74.0	70.7	57.2	41.6	22.0			3 C	0	. .	0 0	0	93.4	20				TEST 0 76	
		FREO	9	38	0	<u> </u>	200	316	4.5	936	Õ	Ŏ.	160	2000	220	400	2000	630	10000	12500	20002	25000	40000	20000			PNLT				MODEL 7600	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

															RI(GIT	AV OC	L	PA QU	GE AL	19								•			
08/30/79 19.452																												IION - YES			FREE-JET SPEED M/SEC (0. FPS)	
	40.0 FT. ARC	00	Ø	150. 160.						16.3 117.0 151.4	116.5 153	17.	119.0 155	118.8 155	3 116.0	2 113.2 154	0 C	0 108.5 153.	108	6 106.2 151	6 103.1	NO.	98.2	6 90.7 147	6 80.5	6 10	130.8 127.7 166.7	REFRACTIO TURBULANC		\$859 TAMB 24.80 29.3550 RELHUM 39.00	IN) - MODEL 0.	
	R.H. STD. DAY, SB. 4	- FJ-ZER-FMODL. X76150	ED FROM INLET, DEGREES	110. 120. 130. 140.						106	.6 107.5 115.5 1	3 108.6 11 2 110 7 11	7 112.2 116.8 120.	5 113.0 115.9 120.	9 113.6 115.5 121. 5 114.7 116.2 120.	0 114.8 117.0	5 114.8 118.0 119. 5 115.3 116.3 119.	0 114.4 116.2 116.	114.3 116.1 1 9 113.3 115.3 1	4 113.0 113.2 113.	7 109.1 110.1 109.	2 107.4 108	8 104.0 105.0 103. 5 101.2 100.5 99 .	96.3 99.3	.8 88.0 88.5 85.	.0 83.6 82.8 80.1 .5 77.8 76.8 75.3	6 125.4 128.1 130.7	DCITY (FT/SEC) 0. DIAMETER (IN) 48.0		N294 IALPHA ADH095 PAMB	81ZE 54.7 SQ CM (23.99 SQ	
	59.0 DEG. F., 70 PERCENT	IDENTIFICATION	ANGLES MEASURED	70. 80. 90. 100. 1						0 94.1 96.2 98.9	7 94.1 96.2 97.	.3 95.4 97.5 96.7 1	2 97.8 99.9 101.3 1	6 98.9 101.5 102.7	1 100.9 103.0 104.4 1	0 100.5 101.9 103.8 1	9 101.7 102.8 105.2 1 9 102 5 103 6 105 2 1	8 103.1 103.9 105.3 1	.9 103.7 104.8 105. .9 103.4 105.7 106.	3 103.1 104.5 105.8 1	0 102.8 104.4 104.1 1	0 102.9 104.7 102.6 1	. 5 101.3 103.2 100.3 1 1 98.7 99.6 97.1	8 93.6 93.7 93.6	7 82.9 84.7 83.6	4 69.1 74.	ď	FACTOR FREE JET		2-21-78 TAPE NO.	ACCUSTIC RANGE 2 H (40.0 FT) ARC 1	
				40. 50, 60.						88.9 91.4 91.	90.4 92.7 93.5	91.55 93.6 94.6 92.6 94.9 95.2	97.4 96.2 96.	100.7 101.5 100.8	99.9 99.3 99.1 1	101.1 102.7 100.	102.1 103.1 102.1 1	100.7 102.3 102.5 1	100.0 101.9 101.9 1 98.0 101.6 102.2 1	97.9 101.3 101.4 1	93.3 98.9 99.6 1	91.8 97.3 99.1 1	85.6 90.7 93.0	83.9 87.7 91.0	71.7 75.0 77.7	66,7 69.8 71.	111.1 113.1 113.1 1	MODEL/FULL SIZE SCA INPUT 1.000 CALC		TEST DATE 02-2 LGCATION C41	7615 12	
716				FRED	Ď	6 6	Ŏ	25 55 50 50 50 50 50 50 50 50 50 50 50 50	8	316	4		Ŏ	Ŏ.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2000	200 200 200 200 200 200 200 200 200 200	4000	8000 9300	0000	1250	1600	20000	3150	5000	63000	GASPL				MGDEL 7600	

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MODEL 7600

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-			1	65.8	1.00	66.3	65.7	0.99	67.5	169.1	68.7	68.6	168.6 168.7	69.0	69.3	200	68.0	167.9 166.7	64.9					101.4			TAMB 37 RELHUM 64	117.9	
SB 2400.0 FT. SL			160.		82.4	-1																		93.3	94.5			- FULL	
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DAY,	-400-FMGDL	INLET,	130.		90.0	-1	9.0																	103.0	109.4	FREQUENCY		S CM (140	
R.H. STD. DAY,	FJ-400	FROM	120.	1 .	85.2	.,	88.9		., .											,				100.6	108.6	0	N299 ADH120	2 80	
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180		160.			į			115.9		•	116.			113.5		109.1	108.1	105.3	104.7	103.5	102.9	200	2.2	88.8	84.1	78.1	65.3	125.6		. 2950	- MGDE			
X76180	g	150.						116.0	117.6	118.6	201			118.1			111.9			107.0			98.7			78.9		128.5	08.00	20.00	SO IN			
FMGDI.	DEGREE	140.						112.5		-	9 5	٠ ١	121.0	121.9	119.3	117.4	116.7	1120	112.2	110.8	208.9		100.7	4 .	88.8	83.4	4 .	130.5	AHG IA	PAMB	S12E 23.99 S			
FJ-ZER-FMGDI.	INLET,	130.						108.7	11.0	114.5	116.6	118.8	118.4	118.5	119.8	120.0	118.5	116.9	115.6	113.7	727	9.80	020	97.0	93.0	86.5	75.4	129.7		-	_		i cap	
_	FROM 1	120.						103.8		07.5	200	4 •		9.6	4 4			12.9			0 0 0	05.7	02.5	95.7	90.8	86.6	77.3	124.8	7000	ADH082	₩S. DS. Z			
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UNTRANSFORMED MODEL SOUND PRESSURE LEVELS CORRECTED FOR BACKGROUND NOISE 59.0 DEG F. 70 PERCENT R.H. STD. DAY, SB 40.0 FT. ARC

					0	RIGINA F POO	L PAG R QUA	e is Lity,						FPS)
											SAY - WOITORAGO	1	27.00 FREE-JET SPEED	
		. 160. PWL		0 115.9 149.3	116.3 152. 116.1 153. 116.7 154.	114.8 155 113.5 155 112.6 155	6 6 	103, 5 150 102, 9 150	99.3 148 97.2 147 95.0 146	94.1 78.1 72.7 65.3	125.6 166.4	TURBULANCE	. 2950 RELHUM) - MODEL
-MGDL X76180	I. DEGREES	0. 140. 150	•	5 116	117.4 118. 119.0 119. 119.5 119.	121.0 118. 121.9 118. 121.4 115.	.5 115.4 113. 5 116.7 111. 9 115.0 110.	.6 112.2 108.7 110.8 107.7 108.9 106.	6 104.0 102. 0 100.7 98. 0 96.6 94.	3 98.8 84. 5 83.4 78. 5 76.8 74. 4 72.4 66.	.7 130.5 128.5		PAMB 29.2	23.99 SQ IN)
- FJ-ZER-FMODL	IRED FROM INLET	10. 120. 130		16.1 103.8 106 18.7 106.2 111	8 107. 1 108. 0 110.	.4 113.1 11 .5 113.9 11 .4 114.0 11	114.3 114.8 113.9	9 112	3 105.7 108 4 102.5 105 9 100.2 100	9 90.8 93 8 86.6 86 8 82.4 80 3 77.3 75	9.0 124.8 129.7 LOCITY (FT/SEC)	۵	16. ADH082	154.7 SQ CM (
DENTIFICATION	ANGLES MEASU	90. 100. 1		94.3 97.0 9 95.7 96.6 9	.7 98.1 .3 99.2 1 .7 100.3 1	.3 102.9 1 .4 104.3 1 .3 104.5 1	.3 105.0 1 .1 105.7 1 .9 106.3 1	6 105.3 1 0 104.4 1	.2 98.8 1 .4 96.2	.4 86, .0 81, .7 76, .8 69	.1 11 FREE	4	AERO. RI	FT) ARC
		70. 80.		91.4 92.2 9 92.0 93.8 9	93.8 95.9 102.3 97.8	.6 100.4 1 .7 103.3 1 .6 102.0 1	.4 105.6 1 .2 106.2 1 .7 105.0 1	.0 103.8 1 .6 103.9 1 .7 103.8 1	.5 102.0 1 .1 100.8 1 .3 98.2 6 92.7	.1 90.4 .2 82.7 .6 74.2 .6 68.4	14.8 115.5 116 E FACTOR		<u> </u>	2 M (40.0
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																						•									- 1	FREE-JET SPEED M/SEC (0, FPS)
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X76181	DEGREES	140. 150. 1	4	2 95.2	95.2	00 0 00 0 4 0	7 93.5	0.	.4 89.1 89.1	85.3	83.2	91.6	77.7	82.8 76.2 6	0.69	62.8	53.8	24.5 40.2	4								107.8 103.3 9 110.0 103.4 9	,	CY SHIFT -9	ALPHA S859 PAMB 29.2950		- (N1 0S
FJ-ZER-FMODL	D ERCH INLET	. 120. 130.	3 88 3 94 3	89.6 96.	4 91.7 96.7		94.3 97.	5 94.3 98.4	94.7	94.2 96.	93.0	2 91.7 94.3	89.3 90.	0 88.0 89.1	82.9 83	.8 78.		66. 4. 4	38.9 31.	13.3 0.							104.5 108.3 109.8 112.6		10 FREQUENCY	N294 I. ADH082		.2 SQ CM (14
DENTIFICATION -	ANGLES MEASURED	90. 100. 110	8 80.0 81	.4 81.1 82.	.7 82.2 84.	84 7 86 W	.2 86.0 87.	0 86.0 88.	35 CO CO CO CO CO CO CO CO CO CO CO CO CO	.0 86.5 88	5 86.7 87	5 86 3 88	.5 85.1 87	.8 84.0 86.	2 80.9 81.	1 77.5 78.	.0 73.4 72.	.7 66.7 65.	.9 41.1 37.	.9 17.3 12.							.7 97.2 99.1 .6 104.2 105.5 .7 104.2 105.5		K KAIIO 7.640	TAPE NG. AERO. RDG.		FT) SL 9032
30 1		70. 80. 9	74.0 75.8 77	5.6 77.9	96 6	9 8	.0 85.0	81.7 83.5 85	0 86.5	.4 87.0	.7 85.5	83.2 84.5 86 82.4 83.7 85	.8 83.7	83	8 i. 2	.9 79.8	.6	54.5 57.0 67 53 7 59 7 60	0 41.9	1.2 15.3 1							.9 96.0 96 .5 103.8 104 0 105.0 105			02-20-78 C41 ANECH CH	CHARG CITCHEOA	.5 H (2400.0 FT)
		50, 60.	72.5 73.5	0 75.1	74.8 76.4 7	6 83.5	.3 82.9	0 62.4	7 86.7	.5 85.8	.7 83.8	82.6	.0 80.2	77.3 79.3 8	0 Z6 1	.3 71.7	9 67.2		.8 29.1								93.6 94.5 94 98.9 100.6 101 99.9 101.1 102			TEST DATE C	12.0	731
		40	FREQ 58.4		100 71.0			200 84.2	9 2	5		800 75.2	73.	1250 70.9	8		25.3	4 6	গ	10000	12500	16000	25000	40000	20000	63000 80300	OASPL 91.5 PNL 95.7 PNI T 96.8				MADE:	

FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SGUND PRESSURE LEVELS 59.0 DEG. F. 70 PERCENT R.H. STD. DAY, SB. 2400.0 FT. SL

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	10.160																								SPEED 294.0 FPS)	.:	
	07/11/70																							27. 86 43,20	FREE-JET SP 61 M/SEC (29		
*	ROCK NOTSE	1			160.	F			14.1 147.2		9 4	07.5 152.8 05.3 152.8	153	4.00	9 152	04	9 150	.3 149 .1 148	.3 148	.8 146 .1 145	7.4	10 -	120.6 164.6	TAMB	MODEL 88.		
		5 40.0 FT. ARC	HODL X76190 HODL X01300	ES	140. 150.		•		10.3 114.0 1	5.00	9 4	.6 116.8	113.6 1	2 112.4	5 109.9	3 106.2	0 104.3 7 103.1	1 102.2 0 100.2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 92.4 5 88.0	4 82.8 5 77.2	2 71.4 7 62.9	129.7 126.1 12	1ALPHA 5859 PAMB 29.5400	SIZE 23.89 SQ (N) -	· ·	
	EVELS CORREC	1. STD. DAY, 38	FJ-300-FMGDI UND FJB300-FMGDI	INLET,	120. 130.		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o		.1 106.		- 113	115.2	9 115.4	5 116.7	.3 116.3	NNI	. 5 113.7 . 8 112.5	112.0 109.3	.8 107.8 .9 104.2	.9 99.5	.3 92.5 .7 86.3	5 73.8	123.2 126.9 1	N299 IA ADH108	S 68		
		70 PERCENT N.H.	ON - MODEL BACKGROUND	Ę	100. 110.				2.7 95.9 1	96.0	97.3	101.0	3 104.2 1	104	2 106	5 106	.6 107.8 1 .0 107.3 1	.1 106.6 1 .4 104.5 1	.4 103.1 1 .2 100.3 1	.6 95.2 .0 91.7	.0 67.1 .0 60.5	.3 73.6 .4 67.6	14.9 117.5 1	TAPE NG. N AERG. RDG. A	ARC 154.7		
			I DENT I FICATION	ANGLES	.00				9 91.3	69.5 91.9 90.1 92.4	2 94.0	200 200 400 400	3 100.1	7 100.4	7 108.4 1	0.000	.5 104.4 1 .8 103.7 1	.0 104.2 1 .6 102.7 1	.5 102.2 1 .7 101.0	.5 98.4 .0 92.8	.0 90.7 .0 83.5	. 1 75.0 4 69.1	3.8 115.4 1	27-78 ANECH CH A	RANGE 10.0 FT)		
	TRANSFORME	59.0 DEG. F.			60. 70.				6 67.4	86.9 86.0	5 90.3	- 01 10 - 02 13 - 03 13 14 - 03 14	8 98.8	6 105.7	7 104.4 1	0 102.0	.3 101.3 1 .6 100.7 1	.3 100.4 1 .0 99.0 1	.0 98.8 1 .6 96.4	.1 93.2 .9 91.7	.8 86.0 .2 79.6	.1 73.2 .6 67.5	3.9 113.6 11	02-2 C41	ACGUSTIC 12.2 M (4		
					0. 60.				.3 87.3	6 97.9	2 88.5	- 0 5 0 9 0 4 0 4	3 97.6	7 106.9 1	3 102.9	9 100.7	.7 100.3 1 99.5 1	.3 99.2 1 .9 97.8	.9 96.5 .4 93.8	.5 90.1	.5 81.6 .1 74.9	69.0	.3 113.1 11	TEST DATE	TEST POINT 7619		
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SURE LEVELS	8 40.0 FT X76190	DEGREES	140, 150.		661. 4.60	5.2 114.7 5.4 116.4 6.9 116.8	0 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	نتق سم مصا	.8 103.2 .1 102.2 .6 99.9 .7 94.4	. 9 80.5 . 1 84.9 . 7 80.1 . 6 73.0	83.2 86.3	88	IALPHA SB59 PAMB 29.5400	23.89 SQ IN) -
L SOUND PRESSURE	H. STD. DAY, S FJ-300-FMdDL	l'	120, 130.	•	2	01.5 109.2 1 03.5 111.6 1 05.8 72.0 1	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	113.7	5 110.1 5 107.2 5 103.9 101.8		71.8	(IN)	N299 ADH106	SO CM C
TRANSFORMED MODEL	œ '	RED	00. 110.		6	7 93 6 1 2 96 0 1 2 96 0 1 1 2 96 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 102 G	2 103 6	2 107.4 8 108.0 1 108.2	6 105.4 101.6 0 97.0	93.0 92.7 88.2 86.3 83.1 81.5 77.4 74.7	.5 68 .6 117	ET ET	TAPE NG. N Aerg. RDG. A	ARC 164.7
19 THO		ANGLES	90. 1			8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 96.7 1 98.1 4 100.6 5 101.3 1	3 104 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 105 6 1 2 106 6 1 6 107 2 1	2 105.7 1 5 105.2 1 7 104.0 6 101.4	6 93.8 0 93.7 0 86.6 7 78.0	3 117.2 1	FRE	.	RANGE 0.0 FT)
	59.0 DI		60. 70.			6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 95 6 2 95 0 2 98 0	2 107.9 2 107.5 105.4	3 105.2 7 105.0 7 104.8	.2 103.2 1 .3 103.8 1 .2 101.4 1 .2 98.2 1	.9 95.9 95. .6 91.0 94. .4 84.6 86.	.0 71.	ALE FAC		ACOUSTIC 12.2 M (4
			.			92.7.8 93.1.8	94.2 94.6 97.6	110.1 106 111.0 110 108.2 109 107.6 107	105.0	103,5 1 101.6 1 101.5 1 98.2	.8 93.8 94 .3 87.6 90 .6 84.0 86 .2 76.4 77	3 65 5 117	MODEL/FULL SIZE INPUT 1.000	TEST DATE LGCATION	TEST POINT 7619
728			FREG 40	0 8 8 8	4	8 8 8 8	2000	4-100	0000	100 200 200 200 200	31500 92. 40000 88. 50000 84. 63000 76.		AGDE IN		MODEL TE 7600

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FLIGHT TRANSFORMED, SCALED, AND EXTRAPOLATED SOUND PRESSURE LEVELS 59.0 DEG. F., 70 PERCENT R.H. STD. DAY, SB 2400.0 FT. SL

X76201

IDENTIFICATION - FJ-400-FMODL

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6.2 LASER VELOCIMETER TEST RESULTS

All the parameters employed in the LV test results tables are defined below:

Model Denotes the model number of the nozzle

Point Denotes the test point number

Deq Defined as the equivalent diameter based on the flow area, inches

 R_2^0 Outer flow radius, inches

v. Outer flow velocity, ft/sec

 v_i^{i} Inner flow velocity, ft/sec

v^m; Mixed flow velocity, ft/sec

$$v_{j}^{m} = \frac{v_{w}^{o} + v_{w}^{i}}{v_{w}^{o} + v_{w}^{i}}$$

V_{a/c} Free jet speed, ft/sec

Type Trav Could be radial traverse (North-South or East-West) or axial

Position Position in volts of linear voltage displacement transducer (LVDT), volts

Histo No. Histogram number

Wean velocity, ft/sec

u' Turbulent velocity, ft/sec

 $\frac{\overline{U}}{v_i}$ o Mean velocity normalized with outer velocity

Turbulent velocity normalized with mixed velocity V.m

 $\overline{\overline{U}}$ Mean velocity normalized with mixed velocity \overline{V} .m

Distance from

X Exit plane of outer nozzle

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The laser velocimeter test results taken from LV histogram and traverses are presented in Sections 6.2.1 through 6.2.7 for Models 1, 1A, 2, 3, 5, 6, and 7, respectively. The type of traverse, position, and histogram number is given along with the mean and turbulent velocity data. The velocities are normalized with respect to the outer flow velocity (v_j^0) and the "mixed" velocity (v_j^M) . The laser velocimeter positions were shown in Figure 14.

6.2.1 Laser Velocimeter Data for Model 1

6.2.1.1 <u>Laser Velocimeter (LV) Point Histogram Measuremetrs</u> for Model 1

Table XVI contains a description of all the basic types of LV measurement, LV position, histogram identification number (Histo No.) and tabulated mean velocity and turbulent velocity information obtained from the existing point LV histogram measurements.

Following Table XVI are the LV mean velocity traces taken to locate where the point LV histogram measurements were to be taken as well as for general dynostic information.

 $R_r^0 = 0.853$ C-D outer nozzle $R_r^i = 0.953$ C-D inner nozzle $A^i/A^0 = 0.137$

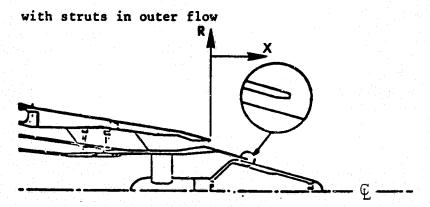


Table	XVI.	LV	Log	Sheet	Mode1	1,.
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Table XVI.	LV Log	Sheet	Model :	1	(Continued).
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Date 1/23/78 Table XVI. LV Log Sheet Model 1 (Continued). 11. 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/2 - 1/ 550 109 040 629 268 050% 670% 032 046 033 100 130. 00 290 504 400 42.6 745 250 727 651 194 2234 27/12 12/2/2 1993 957 2119 14/2 4631 りぎ V" 2427 Fist VM 4091 2337 2043 2093 1223 \$161 HISTO No. 4077 402 14096 4019 4066 404 4090 4093 1633 FM L90H 4092 4094 404 404 12 POSITION | 663 2454 533 1417 276 861 494 290 010 ZZ' 2.35 02, 92 245 19 2.27 633 132 9 50 3 N 700 W W Ľ 7.062 762 PLANE X MS YDES 1.445 1831 4.593 14.00 U W 0 13,361 POSITION (NOLTS) 7 4.915 3.361 Z W 302 352.2 5.619 4235 03.75 315% 35.25 5.314 4.92.5 4.3 B A KIBL KEF 3.108 3.191 Point 24 3.221 5.3

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Table XV	. LV Log	Sheet	Model	1	(Continued)

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Table XVI. LV Log Sheet Model 1 (Continued).

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Table	XVI.	LV	Log	Sheet	Model	1	(Continued).
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	•	Dake //	2/	,	190.	. 073	501'	1	30%	280.	afo.	120.	.677	160	١	sfo.	, 073	.083	200.	250					T				
		\$	72	,	.720	937	.5,20	l	525	1257	277		734	, -	(	385.	659.	_	_										
	5/5	50.3	1/2		720.	890.	260		960.		.074		260.		j	.079			1201	1/50									
	1355	100	2/2		.671	46 g.	.485	(	625'	306.	720	1672	685	344		363	1519.	565			-								
	7		, o,		424	99.2	140		143	2//	POI	96.9	104			115	99.1	111	103	74.3									
	7.	12/2	12 %		975	. 7	704	1	366	1016	1046	٠ ا	266		1	725	893	173	630	482								-	
	3 Fres	202	H1570		5129	5130	5731	5/32	5,33	5134	5/38	5.36	5137	5738	5,39	5110	27.47	5.42	5143	5144				,					!
	145	868	1100	· · · · · · · · · · · · · · · · · · ·	.213	.392	,657	(	.599	320	237		11/4.	7	ţ	66%	9,677	462.	729	5///									
)	1, 1953	. l	KN DIAL POSITION LOC. KINS. 196;		86	037	2.99	į	2,75	1.47	1.09	11/4	1.89			3.21	177	777	3,35	5.12		-							•
		.,7,	RN 2046		F	+		. \$	E	-	7	3		<b>\</b>	1	3	:	E	-	7									
	5.116	4.543	POSITION POSITION	•	2.814	-	_	7,584						>	13,953		1	1	-	>									
	2)	4	~ ×		19.57	4	>	39.27						-	7225	1	1	$\dashv$		-									
	2.3	·	PLANE		H	-	¥	X						>	111	-			$\dashv$	7									
		9	(2770) (SN	13367	13357	-					7	— †					1	-	1	>									
		1506	501	4.955	5.248	5494	5.83	1	5.781	5.355	1/25	4.833	4387	3.611	١	3,993	25277	5.334	5.759	755.9									
	7	Point	POSITION (VOLTS)	KEF + 3,103	3.323	-	-	3,696	-	4	7	4	-		1617	4	1	1	-	>									
	Nioù E L	60		Ref			•	E-W	1	_	1		1		EW 4	1	1	1	1		}							$\dashv$	
	)		TXPE TXAV.		1	1	1	7	. 1	- [	1	- 1	- 1	- 1	4	1	1	1	1	•	1	1	1		1	1	l		

Table	XVI:	LV	Log	Sheet	Mode1	1	(Continued).
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		2/29	· · ·		•		Та	ab 1e	/X :	T.	LV	Lo	g S	hee	et N	lod	≥1 :	1 (	Con	tin	ued)	OF	PO	UK	Ųυ	ALI	
<b>?</b>	•, 	Dute 1/23/78	2/2	1	047	11.7	ı	840.	0%6	1	647	1/10	(	1								T					İ
		À	7/2	١	900	228,	١	9/9		i	346		<del>                                     </del>	1								<del>                                     </del>	-				
-	Sels	30,3	%		١	{	1	١	(	1	{	1	١	(													<u> </u>
*	101	0	2/2.	,	1		١	1		١		1	1	l													
	1		C, FPS	,	52.3	1291	١	52.6		1	52.3	854	l	1													
	FPS Vm	12/2	15 %	1	994	907	١	650	597	1	859	147	1	1													
	- 1	LL,	HISTO No.	5057	5058	5059	5060	5061	5062	5063	8 <b>ळ</b>	5905	9705	5067													
	0	100		١	S. S. S.	41.9.	1	.209	702	١	311.	109		-								-					
			100. RINS 462	1	271	2.82	١	36.	.95	١	,54	,50		-													
•		72		1	Ē	. 13	١	$\omega$	H	١	E	W		-{													,
	5:178	4.573	K MS XDES	Eht.			1.463			2341	$\dashv$	>	4,720	2.111													
	ار	7	50% X	777		>	168		<b>&gt;</b>	77.7		-	24,44	34.62	•												•
	2	K.	PLANE	X	-		8	-	>	H	-	_	12	¥													• • •
		<b>B</b>	NS N3.384	13,384											-		-										
	1	113	10 N ( KW 4.854	١	5667	4,007	١	2057	2138	١	5.015	4.704	- 1	١													
	MODEL	Point	E POSITION (VOLTS)  V. AKIAL EN NS  KEE 3108 4.854 /3.384		+	-	3.224		7	1528	$\frac{1}{1}$	>	3477	3,664				•									
(		70,	TYOE TKAV.	E-W			E-W 3			E-W			E-W	EW													( ·

		34					ı	Tab	le	XVI		ΓΛ	Log	S Sh	eet	Mo	del	. 1	(Co	nti	nue	d) .	F	PO	OR	QU	ALI'	IY .	
).		\$400/	72.		Ti	1		1	Į	1	ı	043	670	1	770	220	1	300	1	1	790	20,	1	37.0	170	400	1	.037	305
		2,4	7/2	1		1	+	+	i	1	1	1.013	166	1	1107	(023	1	1034	1	ı	159	7707	١	.639	101	5107	1		5107
	Sold	503	1/2		1	1	Vis e	1	1		1	140	800.	1	120.	020	1	,023	1	1	.059	226	1	240'	220.	1700	١	03	.023
*	Ì	0	ارا بر	1,	1			1	1	1	1	.953-	940	1	.954	396	-	375	1	l	717	676	1	20%	1956	1957	1	<del></del>	957
	2051		, o, F.P.S	1		1	-	I	1	1	1	0.36	7.07	1	46.0	1.65	1	50.0	١	١	371	56.7	1	90.6	55.2	18.6	1	255	1,29,6
	7.	Lake	12 %	1		1		1	1	1	1	2076			2074	2099	1	2120		}	1335	2305	<u> </u>	1310			1	1902 5	1000 9
	FRE	302	HISTO No.	,	2021	3072		3075	3077	3078	3079	3060		3082	3083	3000	3065	30854	3086	3067	_	3059	3050		_		3094	9	30%
	2175	1348	110W		١	١		l	١	١	١	275	-	1	810	the.	1	901		1	1.592	2116	١	20	<u> </u>	-57	1	350	765
1	جر	7		,	1.23	3.52		2.79	0	1.39	1	405	3.77	`	3.72	369	`	414	1	1	2.74	3.30	*	2.87	3.25	3.19	;	3.66	3,51
41		7,	40 Dust.		F	"		E	3	E	<u> </u>	3	-	-	W			_	1		3	_	_	4			>	SE	\\ \
	700	4.593	POSITION   SON		1	(	REF	١	١	1	194	1					_	_	407	7	<del> </del>								7
	15	17			1	١	E-W	1	1	1	C							>	200	200	-		-		+	-			7
	200	. 4	PLANEX		1		VEVJ		1		0	-	$\perp$	_				-	00	1 0	<u> </u>		-	+		1	-	+-	, N
		1	COLTE	13380				122.80	_					1	32.6%	_		1225		+-		>	1		12,27	>		13,042	13269
		7//	SON (	7,167	6.262	1,00.9	h767	577	4 91 1/	77	227		3,704	3.77	100/	100	1	1	3	1	107 /7	2936		100	77/2	1200	27772	<u> </u>	
	7	5	POSITION (VOLTS)	Rer-3.107		1		1	1		6, 6	3/20	-	+	+	-	H	-	21100	2/1/2	7/60	+	+	-	$\frac{1}{1}$	$\perp$		$oldsymbol{\perp}$	
	1100 E	Point		REF	AXIBL	AXIAL		10:	NXINE.	NX INC	8×101	F-W	1	1	रू		T:	3		F-10	MA			7					
			TYPE TKAV.	-	AX	A		1 2	4	£1.	7	ı		1	1	1	•	•		i	1	•		i					• 1

•	<b>3</b>	J402/1						Tab	1e	XVI	 [.	LV	Log	g Sł	neet	: Mo	ode:	11	(Co	nti	nue	a (b.		RIGI F P	INA OOI	L P R Q	AG! UAI	e is Lity	
å		State 1	2/3.	JAC.		250.		١	1	890.	,039	6/0	035	.030	.083	250	1	١	035	033	0357	850	350	030	i	00/	036	220	
		<i>لە</i> جر	9/2	50.07	7016	1.009	7.200	1	1	999	1559	1117	199.	77.07	07.07	1034	i	i	0101	Sto	533	637	18	5/01	T	912	8/0%	797	
	SYA	567		.043		,053	840	1	1	.064	.036	810.	.033	720.	0,00	420.	1	1	033	,03/	,033	.036	250'	800	١	290	-	<b></b>	
	2051	0	26	948		.952	943	1	1	146	619.	.579		126	.962	216.	1	) manufe	362	547	.503	600	,	957	١	No	.960		
	Í	y	10°	24.4	$\vdash$	11.5.	201		1	9/	75.3	361		1	H.	5.7.2	(	1	22.7	4	224	285	69.6	979	1	205	73.9		
: 	7			12062	20 83	20.70	2050	1	1	2047	1365	1260	73567	2056	2093	21.20			2073	11.89	1607	1306	7021	1807	1	1870	20%	1356	
	2175 875	EP.	HISTO No.	3057	3098	3099	3700	3101	3/02	3/03	3109	3105	3/06	3/02	31 OF	3/09	3/10	3/11/	3112	3//3	3114	3115	3116	31.12	3119	3.20	3/2/	31.22	
	7	1348	Sirion E Res	. 225	28.5		18/15	1			1811	75.5	145	107	72.5	727	1	1	.440	246	250	320	1.66	1511	١	563	22%	787	1
	7.	, , , , , , , , , , , , , , , , , , ,	1AL POS 1.105.	3.79	3,61	3.5/	3.73	1	1	3.02	235	236	2.49	187	3:34	305	1	1	202	113	1.18	14.77	2,04	2.36	1	2.59	2.09	107	Nº su
			207	NE	1		F		1	3	*	4	$\exists$	1		<b>&gt;</b>	1		3	2	W.	-		<b>X</b>	17	4	7		•
	5.118	4.543	PLANE X MS YDES	829	1	+			7007	+	-	$\frac{1}{1}$	1	1	+	-	1,445	1.931	-					>	2,789	7	+	*	
	1	4	AXINE PA	3.5			<b>&gt;</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.50	2,30	-	1	$\frac{1}{1}$	1	1	1	>	248	10.00	1			+			14.44	+	7		
	<u>ئ</u> ئ	V.		2	7			3 1	4		$\pm$	1	+	+	1		7	0	-	1				<b>X</b>	H	7	-	7	
	1	او	(Vaits) NS		13.647		13.300	+	$\pm$	$\pm$			+	+	1	1	1		$\frac{1}{2}$	$\pm$						+	-		
•		7	POSITION (VOLTE)  4 KIAL EW NS	<del>                                     </del>		3603	*		<del></del>	2003	4.219	5634	2,670	5.766	225	5.639		1	4316	4585	5,279	5,365	5,536	5632	1	5.700	5.552	5.2.11	
	1103 E L	70127	A KIAL	3,160	+	1	7 /2	2,00	777-	-		+	+	+	+	-	3.220	3258	+	+	+				3.325	+	Ŧ	-	
	010	9	TXPE TXAV. Kei				F. 41	Family	2							,	12 m	E-W		1	İ	1			K-12	†	†		
			トド	•		4 P				•		<b>*</b>				•	ı	ı		•	J.	1	1	1	7 <b>1</b>	ı	1 -		j

		gor				•	T	ab1	e X	VI.	L	V L	og	She	et :	Mod	el	1 (0	Con	tinı	ıed)		(	OF	PO	OR	QU	ALI	ſΥ
		Baladi stad	1/3.		.043	8,00	740.	[	PSO.	146	.067	190.	411	650.		5/1	////	.ols	./36	29%	1	45%	611.	5,80	260	327	811.	1	103
			1/2 m		462	384.	1024	١	,957	18/	159r		1,233			508	.703	727	206	125.	1	.433	.607	729	72%	605	.386	]	345
	Sels	Sol	1/2		lho.	240.	.044	١	afo.	137	.063	.057	.117	.094	1	067.	10%	oso.	129	./53	)	111	.//3	480.	280	777	////	1	160
	150	0	1/2.		.455	450	916	١	.897	hsh.	,55p	25.4	.710	. 236	١	ash:	663	9.89.	.760	1534	Ì	40%.	572	183	683	125	364	1	325
	7		o, FPS		87.2	99.3	95.K	١	173	299	138	577	225	204	1	305	227	175	229	333	1	254	245	183	131	225	241	1	717
	7.	/a/c	りる		38.8	756	10/2	١	1951	486	1214	1205	1545	1819		1044	1442	1491	1654	79/	}	ST	1547	1495	1486	157/	792	1	707
	2 1.75	36/37	HISTO No.		3123	3124	3/75	3126	3,27	3120	3129	3130	3/3/	3/32	3,33	3134	3/35	3136	3137	4616	2139	3140	3141	3/42	3.173	3144	31.45	3146	3147
	2/75	1348	110N		0	.034	.369:	1	414	259.	0	.030	197	.372	١	.612	.371	0	,353	0/7	1	727	,353	0	1.30	744	418.	١	. R6
	, 'Z'	•	12 POS 1710N		0	9/	1.69	١	05.7	320	0	19	90	127	1	2.81	1.70	0	79%	2.80	١	3,37	7911	0	143	2.04	3.74	1	3.98
		72	40 DIAL 40C.	1	É	E	B	J	in	1	B	B	E	ž		B	;	B	E	*	)	B	=	બ્ર	E	-		1	3
•	THE	4.593.	POSITION INSTANT		2.78%	$\exists$	-	5166							7,559					7	9,50							13.928	7.
	2	7	7 X		14.49		-	26.75						,	3914					>	2515							277	
	200		AXIN		H	1	-	7							¥						7	-					7	R	-
		J	(10LTS) NS	13.380	13380	-																						-	
		7//	10 C	4954	45%	2537	4.416		5,494	5.98.5	4.930	4883	5,185	4412	1	110 60	4413	7767	11.475	5.764	1	3.930	4437	4,922	5,053	5.536	97009		3,730
	7 %	Point	POSITION (VOLTS)		3,325	$\dashv$	<b>&gt;</b>	3.511							3.698		·		-	7	3.865	-					>	7.196	-
	Mos & L	60		Refi	1			EW							EW						FN	1					1	E-W	
			TYPE TRAV.		1	- 1	ı	1	1	ŀ	- 1		l	- 1	٦	ł		1	1		4	. 1	- [	ı	1	- 1	ı	7	

Table X	VI. LV	Log	Sheet	Model	1	(Continued).

		90/01						T	ab1	e X	VI.	L	V L	og :	She	et l	Mode	e1 :	1 (	Cont	tinı	ied)	O	FF	00	R(	)UA	ĻIT	Υ
1	•	24/04/1 445	1/23		201	7/15	. 1/3	102	1	994	.059	990.	360.	050	l	250.	670	720.	1	350	.024	25%						(	<b>j-</b>
			19 my		440	.507	.435	.33/	,	348	14.7	448	.407	315	١	1020	1022	9007	ĺ	1052	9/07	_							
	Selvi	3	<u>%</u>		101	205	10%	.096	}	880.	.094	.092	.093	SB	١	,033	527	20.	١	120.	,023	.024							
	2051	0	<i>≥</i> ,		115	JEF.	9//	.312	1	328	.343	423	384	. 297	١	962	316	1967	١	967	1959	.957							
	7		F/PS		_	229	232	209	1	165	hot	200	202	185	1	71.1	55.6	55,6	١	48.9		51.4							[ ;
	7.	Ink	12 %		903	1040	892	613	١	213	855	919	835	647	(	20%	2097	2104	١	2103	2084	1308		İ					
	2175 FPS VM	50 3	H1570		3/18	3189	3150	31.51	3152	3153	3,57	3155	3156	3,57	3/58	3/55	3160	3/6/	3/62	3/63	3,64	3165	•						
	217	1346	12 805 1710N HISTO NO.		1,767.	.009	71.	Be	1	.790	.305	.0/2	.392	200	1	PyS.	1917	116	ļ	999.		122							
, -	, 7.	 ا	14 POS		2.03	.60	1.85	4.04	}	363	477	0.	7.85	3.71	3.88	1	471	4.16	3.21	4.13	3.71	727							(- ₎
		7.	RN DAL 200.	-		W		>		3			E			<b>-</b>	WE	SE	F	SE	B	NE							
	21/16	4.593	Position mes		13.928	_		7	15,206					>	2.94							<b>\</b>					•		
	1	7	504 77 504 X		7777	1		7	78.74	1				>	15.5	_						-							
	S.	·	AXINL PLANE X		2	1		>	7	-				>	A							,							
			POSITION (VOLTS) 4 KIAL   EW   NS		13310	1								>	1	13381	13.570	12,913	1	12.837	13.360	14005							
	1		10 Z	4.924	2,316	4937	2510	6.136	1	3836	4.393	4,907	127.2	6.030	5807			>	6.038	-		1							
	1103 E C	Point	POSIT	8643109	4.1%	-	1	>	4.2%	+		1		$\lambda$	3,130	-		$\dashv$	-	4		-							
C	7102	ò	TYPE TKAV.	Pai					EW						2-5				4-5										

		25/20	•	•	. •	•	Tab	le :	KVI	. 1	LV I	Log	She	et	Mod	lel	1 (	Con	clu	ided	).	0	FF	900°	R	AUÇ	LIT	Y
( )		Drile 1/	1/2.		420	627	1	. 036	03/	.042	720	١	.063	.043	145	011	.052	090	ì	0%0.	7//	-136	311.	.11.7	1	690	380	
		Ž,	7/2		200	958	١	216.	986.	.973	616	١	,543	38	652	277	256	.957	Ţ	.826	176.	725	.239	407		122	2825	
	ray	563	1.5		200	920	١١	250.	.03/	.041		١	.ó62	-	140	901.	2550.		١	.078		133	7115	1114	1	199.	180.	
	2050	0	25.5	,	924	18	1	957	.26	953	930	١	.533	306	1		.937	1937	١	90g"	335	.209	729	.399	١	806.	.832	
	7	1	EPS .		300	5 55		73,3	4.4	P5.7	147		129	26.3	292	226	116	123	١	163	233	278	24/1	239	١	1/1/	163	
	7.	14/2	りま		022	1/ 0/		2003	2021	1994	1946	.)	1114	2020	1337	1582	1960	7	1	2671	700	1484	1151	934	(	1500	7527	
	22 503	Eles.	H1570	,		2/16	5146	_	$\overline{}$	1515	2775	_				5157		5,59	5160		5162	5/63	5164	5765	5,66	2.925	5168	
	2092	202	1710N		23	<u> </u>		602.	557	189.	669.		870'	368		198	392	385.		820.	786	.32	1351	177	1	277	344	
(	7.		200 74	1	2011	407	1	3.07	3,01	3,13	321	1	.73	1.69	2.6.0	18;	1.57	1.77	1	36.	3,6/	1.70	1.29	3.3/	-	1.27	1,58	
	en Life e	72	KN 20. 1		,	7 3	1	$\mathcal{S}$	Ē		->		M	3		<b>\</b>	$\omega$	1,1	}	12		<b>&gt;</b>	3	=	<b>\</b>	Ü	77	
{	12/	2773	POSITION MAS XDES		77-	<u> </u>	1.062	i i			-	27/9						<b>^</b>	2.559		-				5.166		>	
	6	2			7:26	<u> </u>	5,5				_`~	19:44							39.14					>	26.75		>	
	2000	·	PLANE X		<u>z</u>  -	-	Y				<b>-</b>	I						À	¥					<b>-&gt;</b>	<b>!</b> -7	_	<b>&gt;</b>	
		H611	FN WS		X _	1				•			_														<del>\</del>	
				548%		7777	1	3,974	5.197	5.835	5.657	1	1594	5.402	5605	5.167	4.423	4,365	1	5,002	5,928	507.7	4539	3.903	1	5.276	4422	
	7 3 2010	Point	POSIT	3,104	2.727	-	3.189	_				3,322						>	3,6 95					->-	3,500		-	
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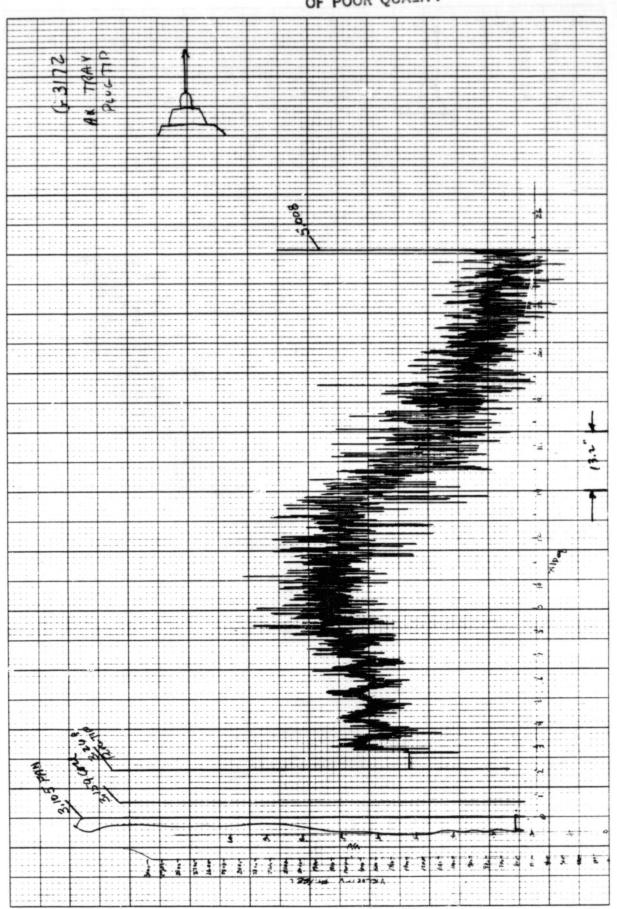
a

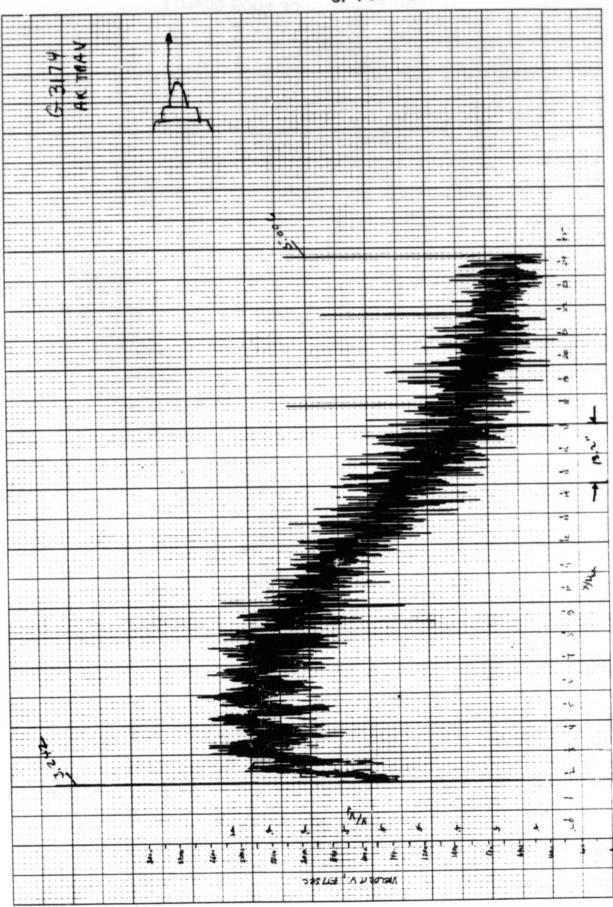
#### 6.2.1.2 Loser Velocimeter (LV) Mean Velocity Traces for Model 1

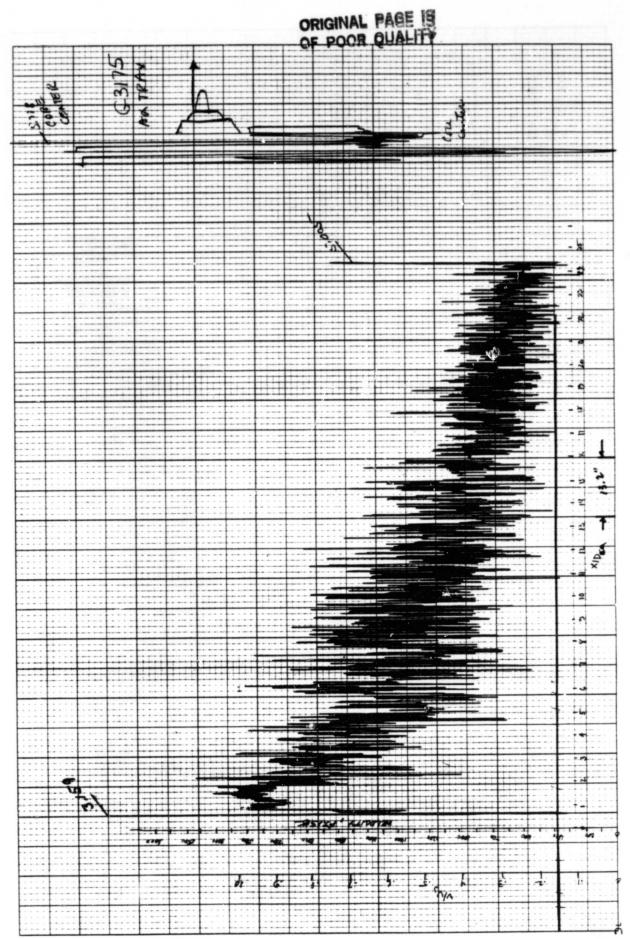
Test point number and plume location is identified by matching the identifying Histo No. on each graph with that given in Table XVI.

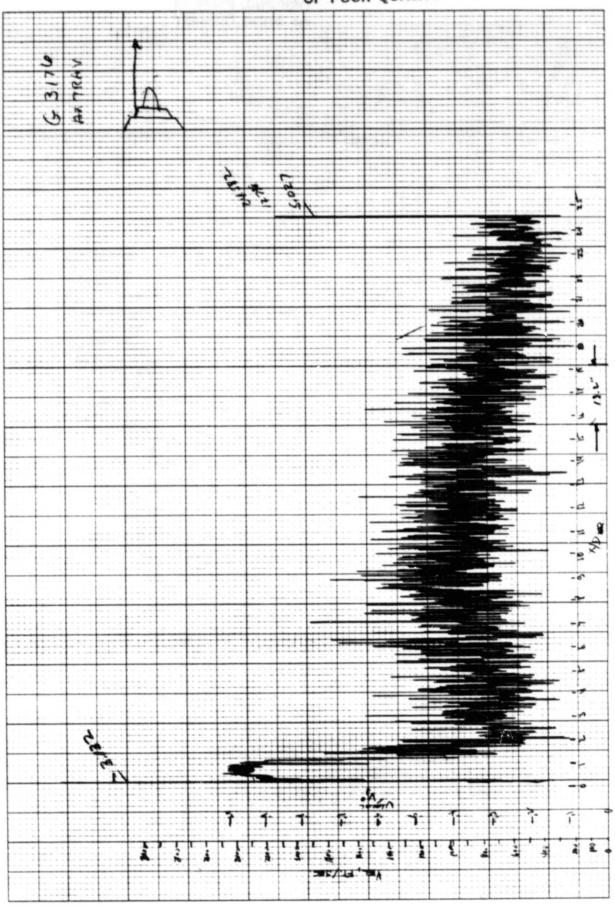
The velocity and physical position information is identified with handwritten scales on the ordinate and abscissa.

MODEL 1 TEST POINT 101 .

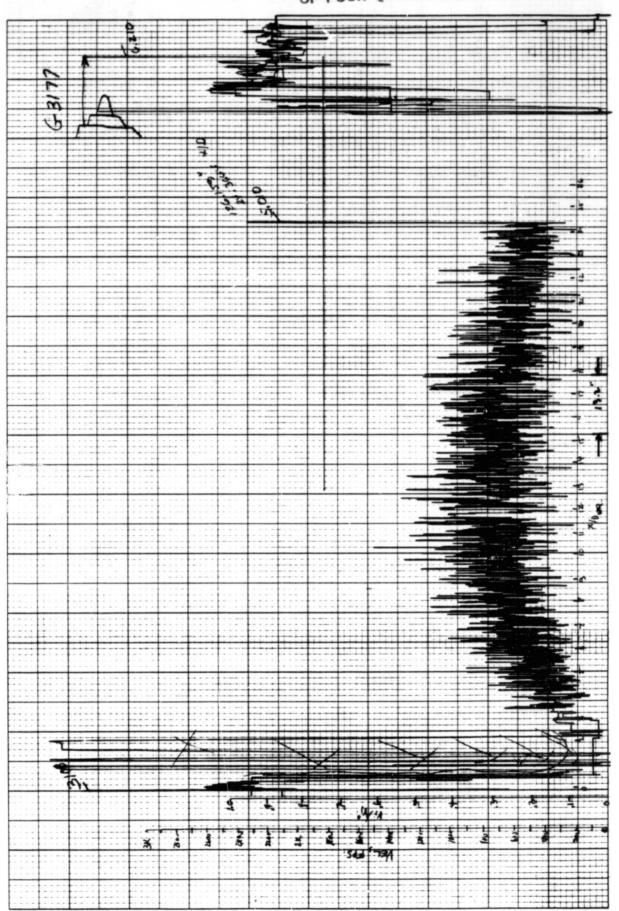








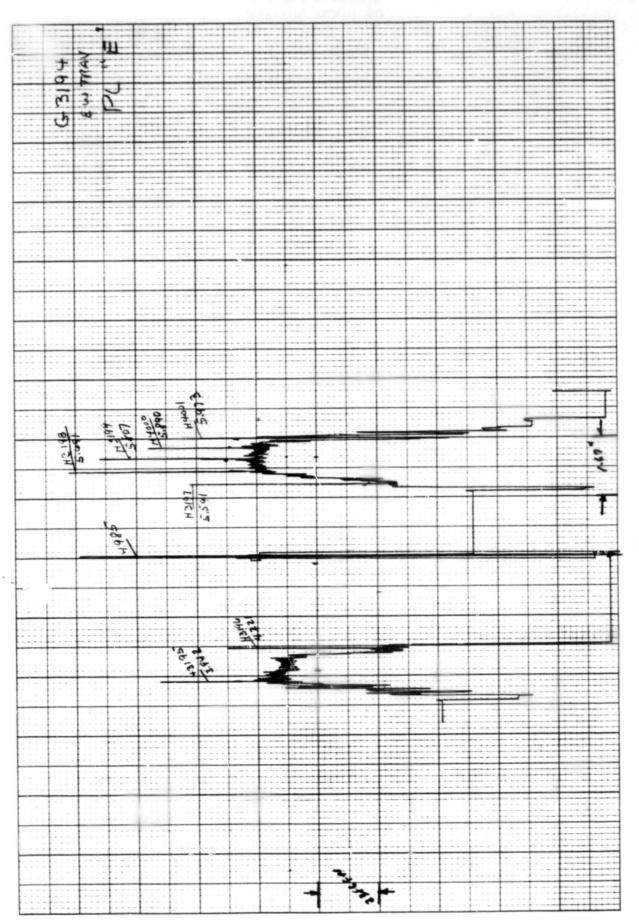
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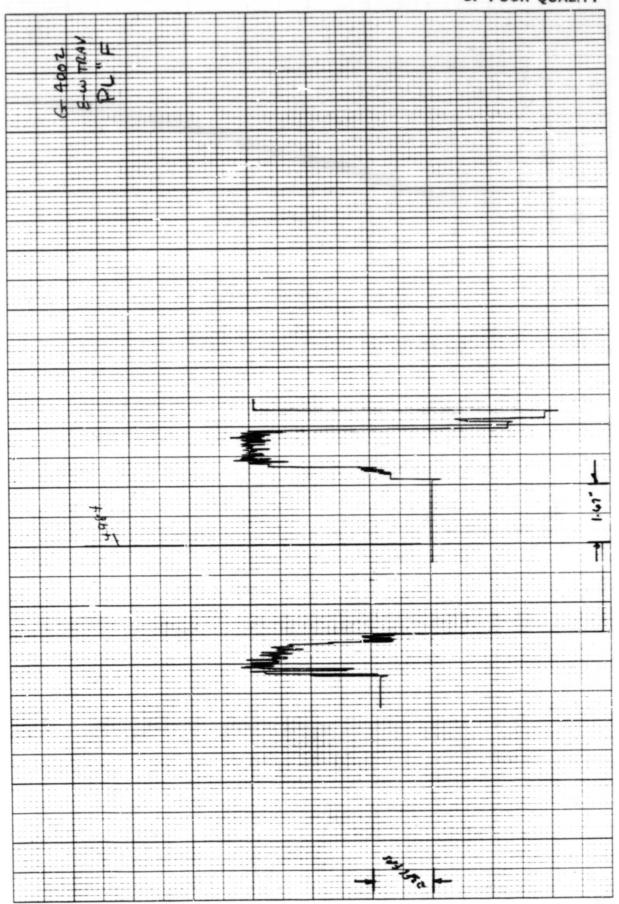


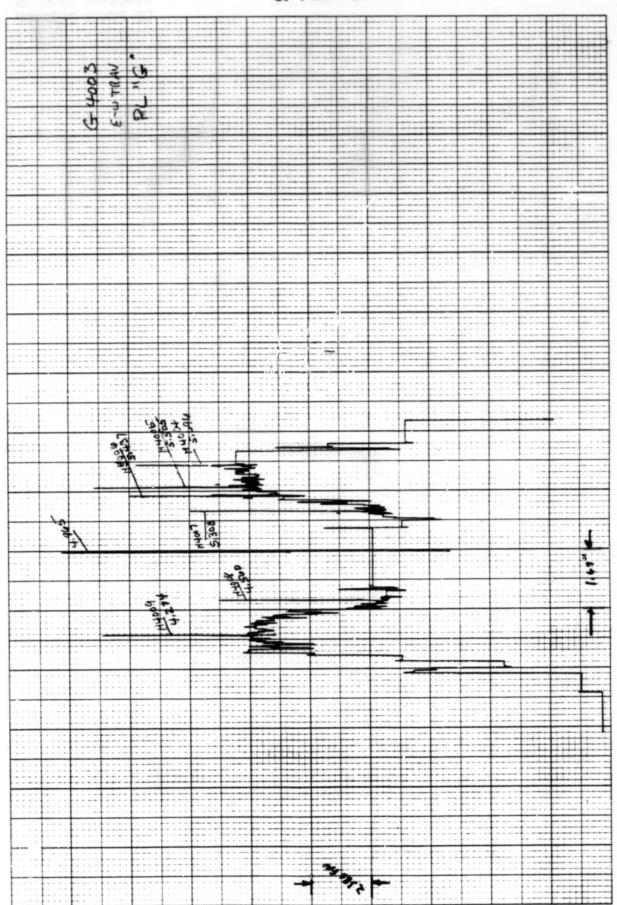
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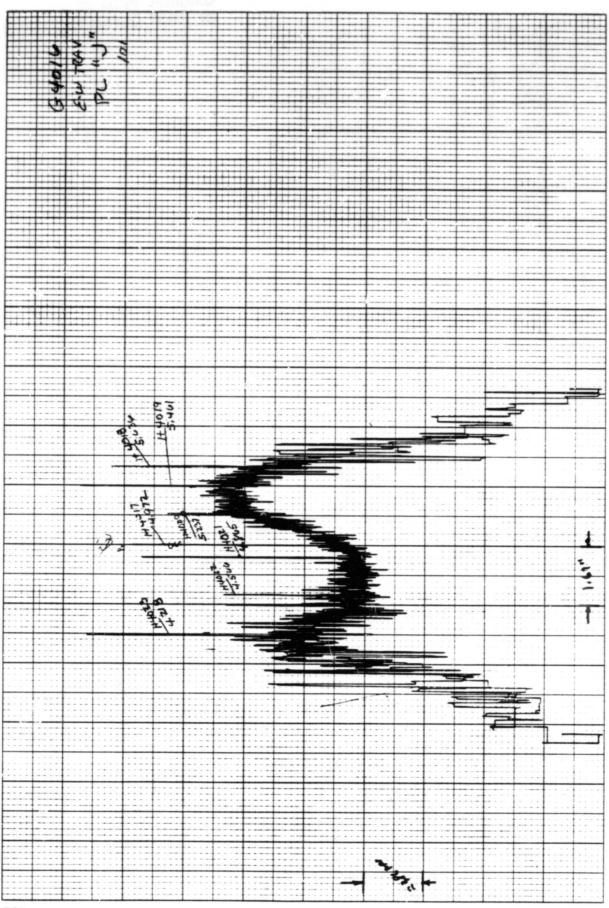
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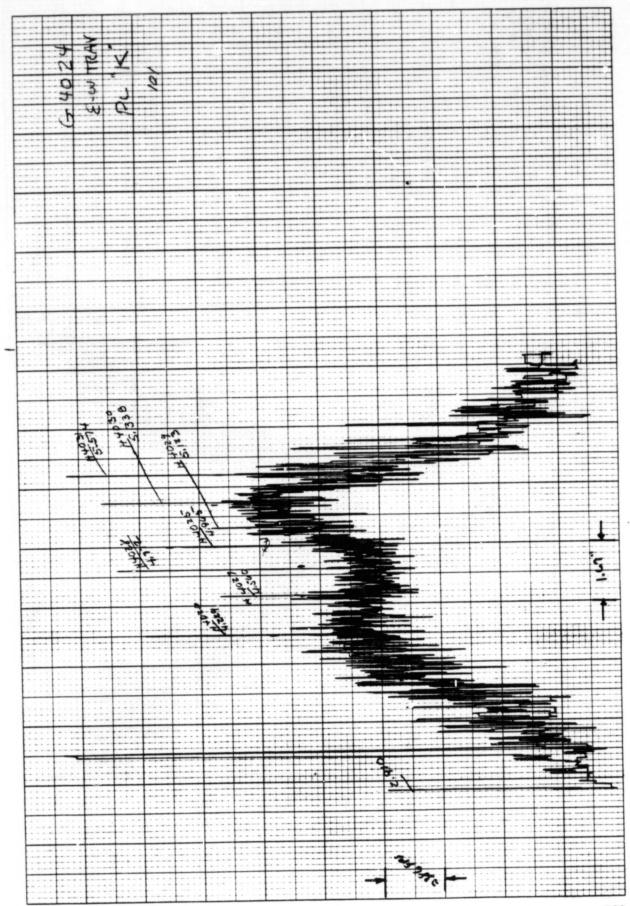
ORIGINAL PAGE IS OF POOR QUALITY D. Histo 2

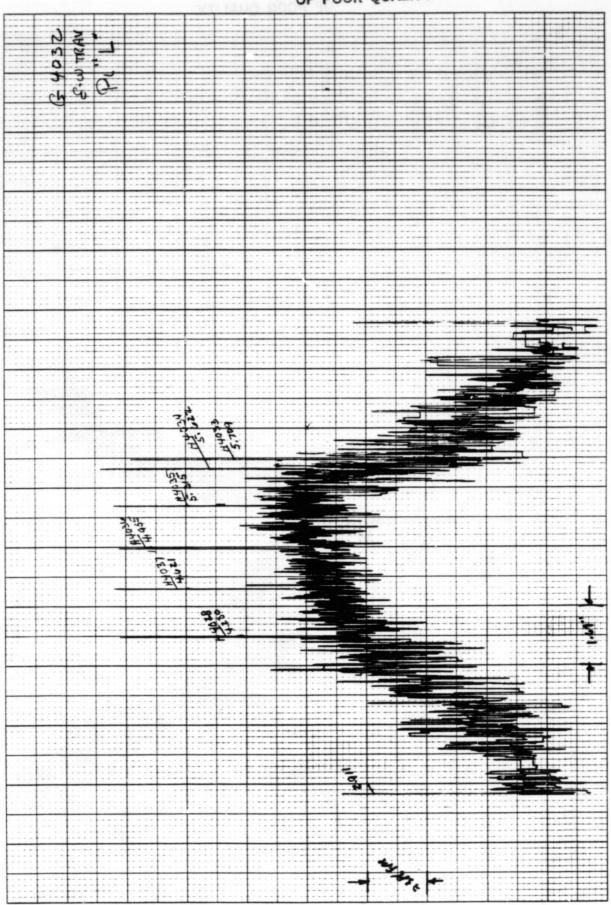


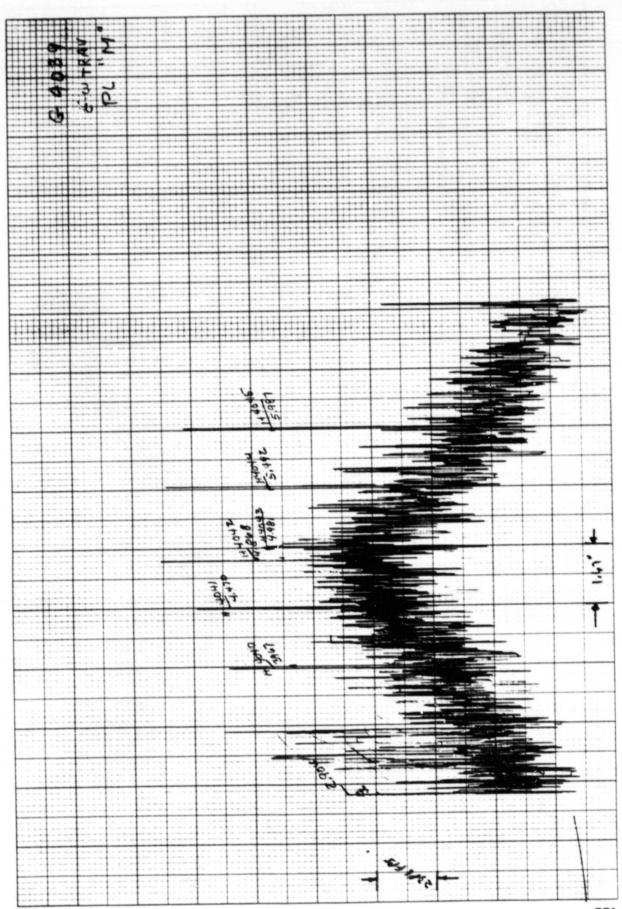


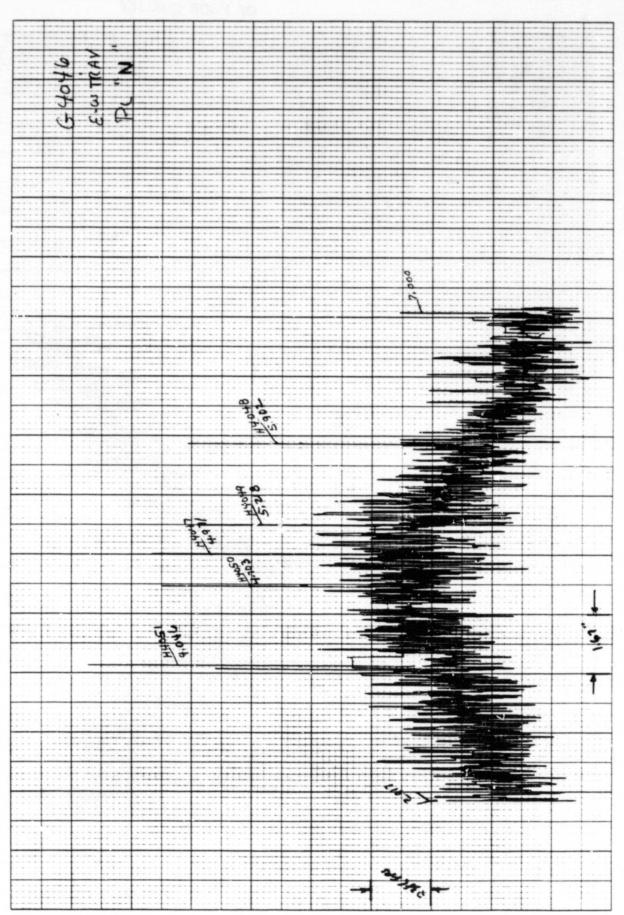




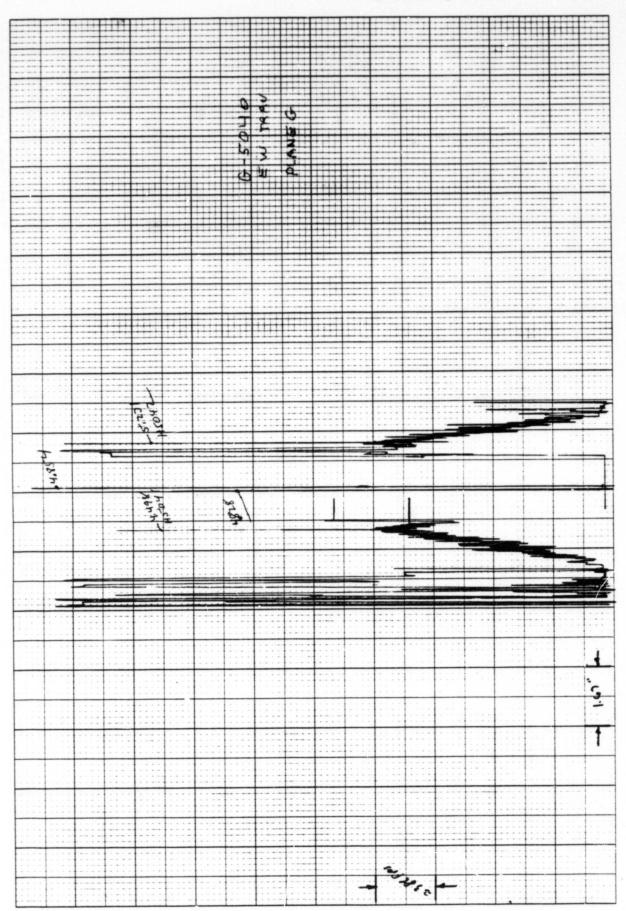


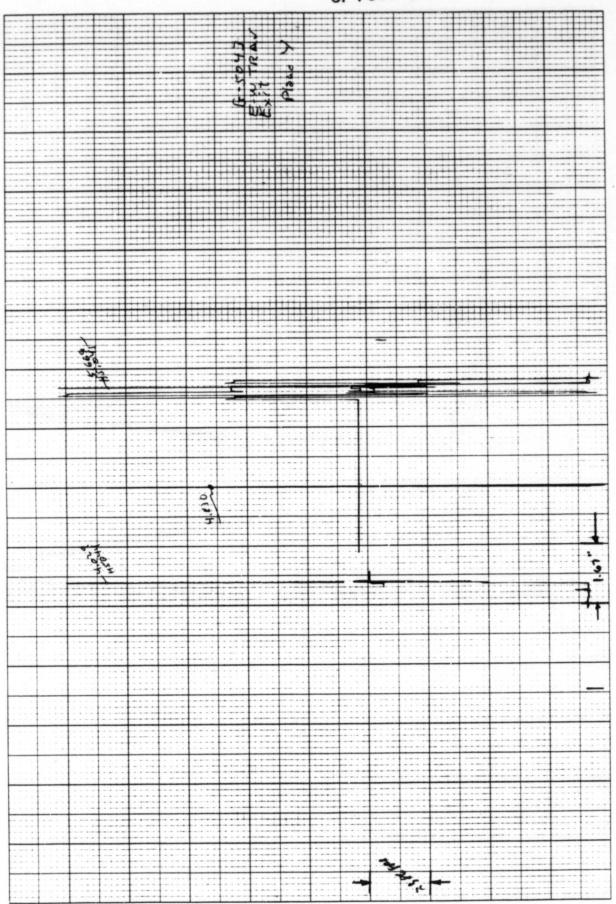


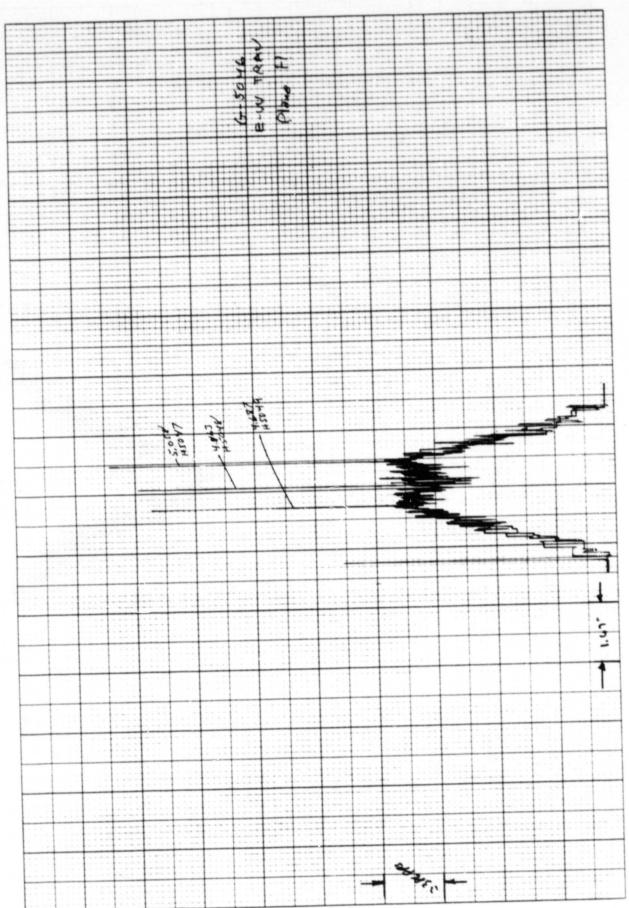


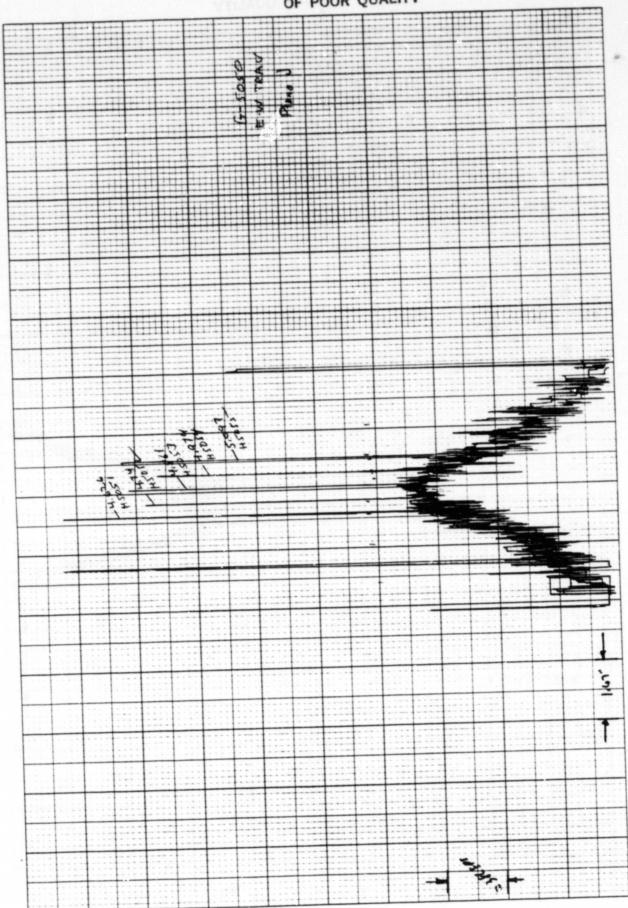


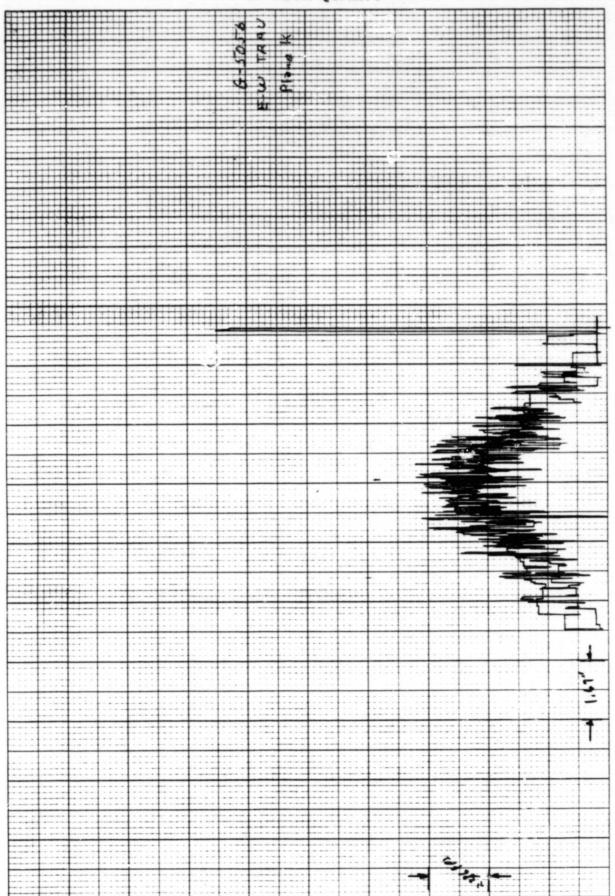
MODEL 1
TEST POINT 101A



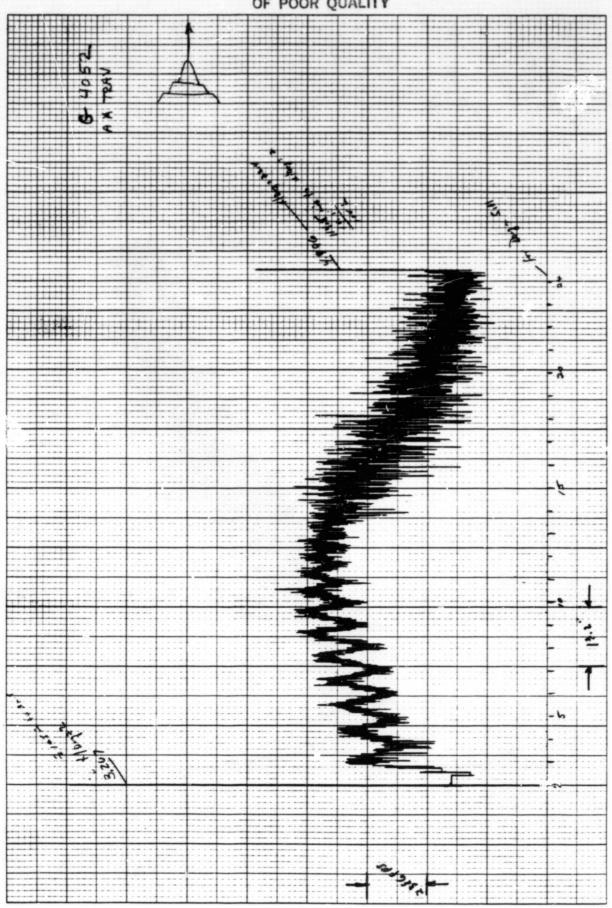


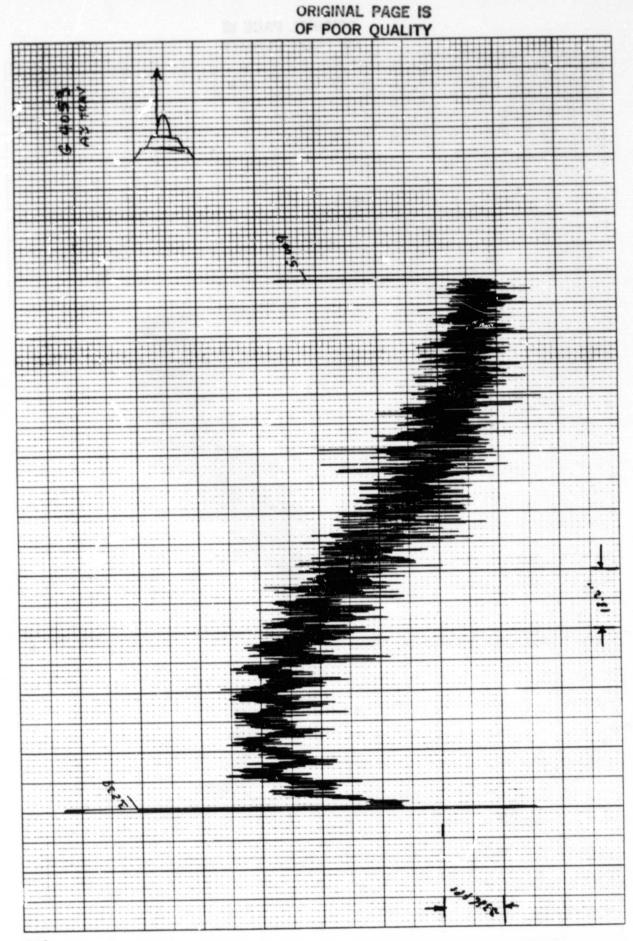


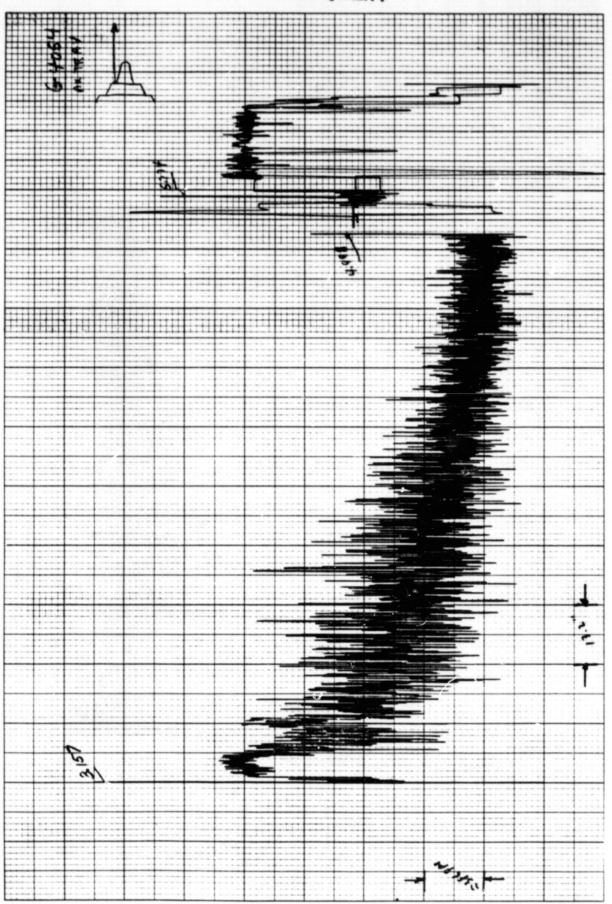




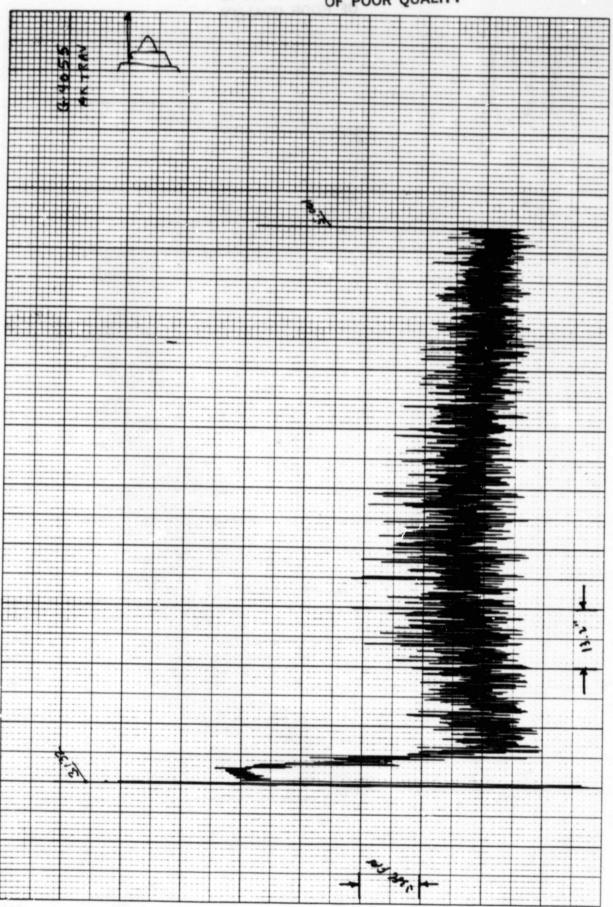
MODEL 1 TEST POINT 103

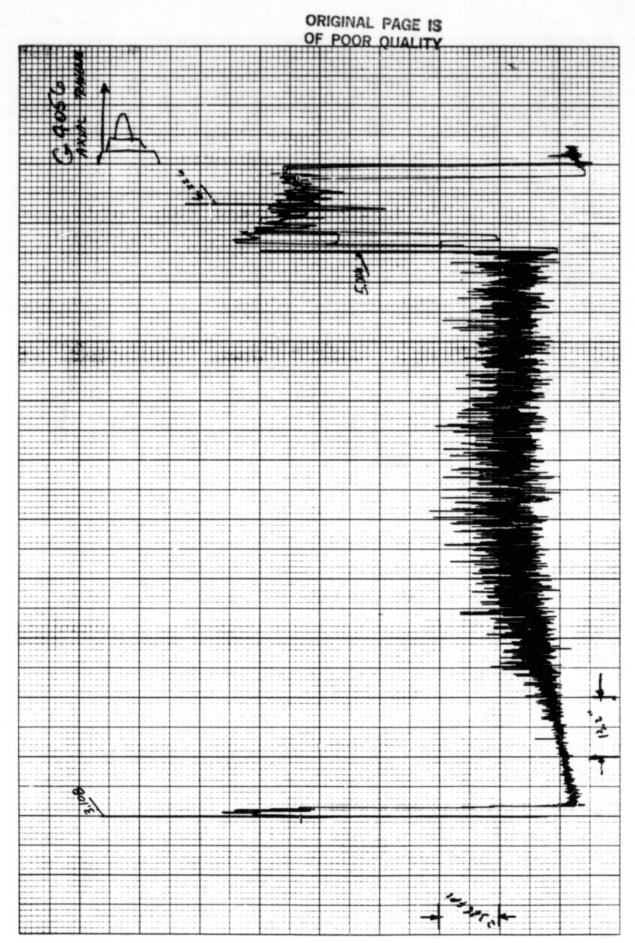


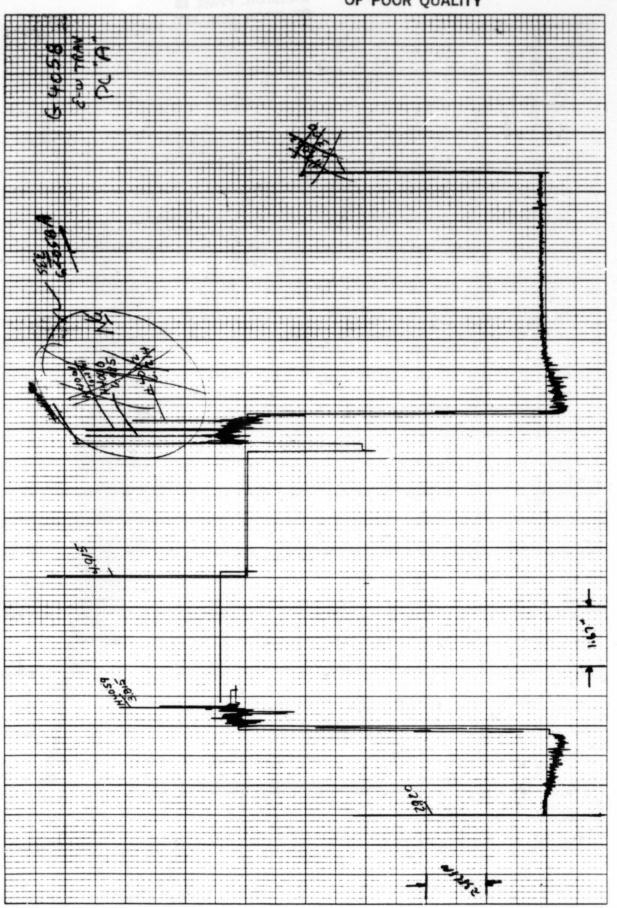


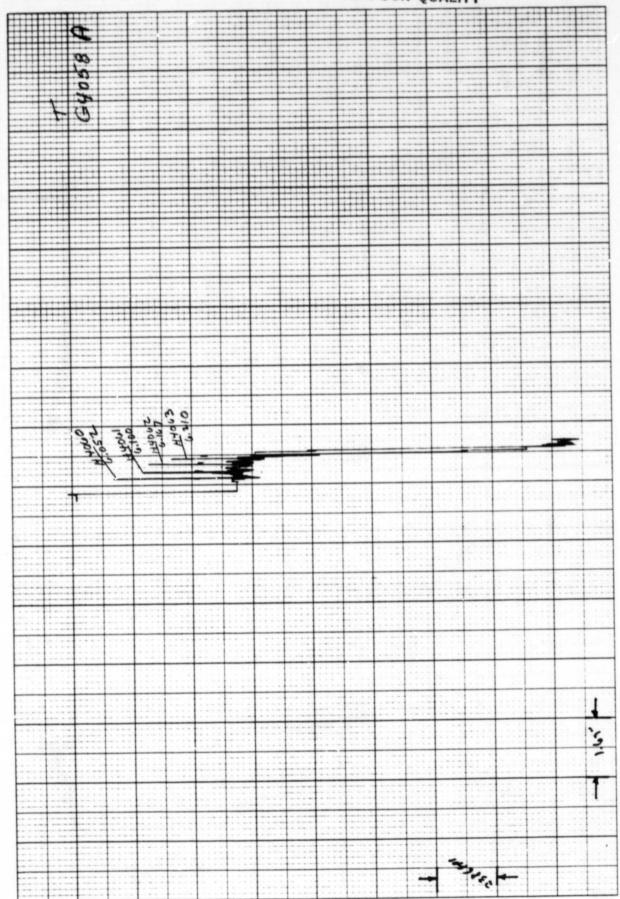


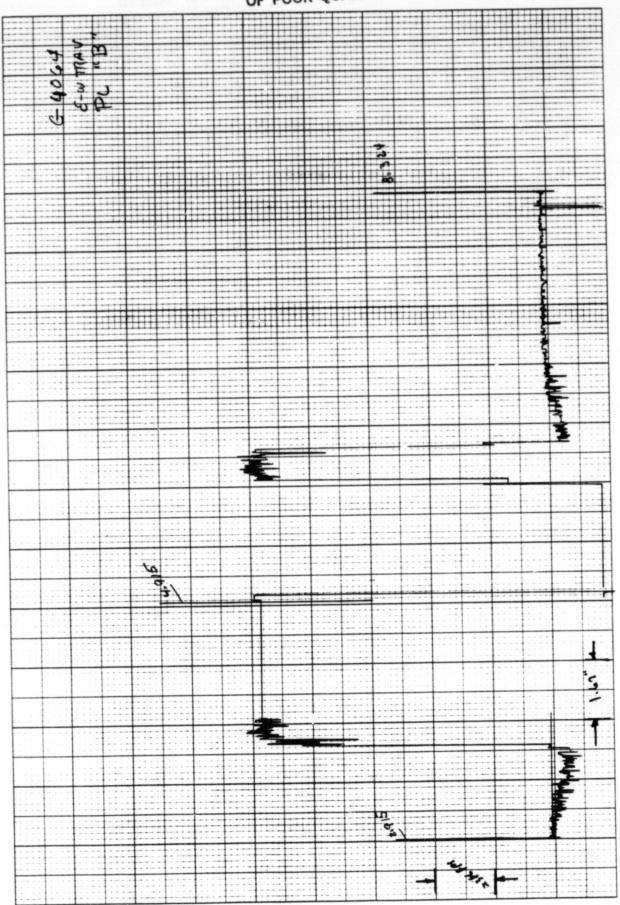
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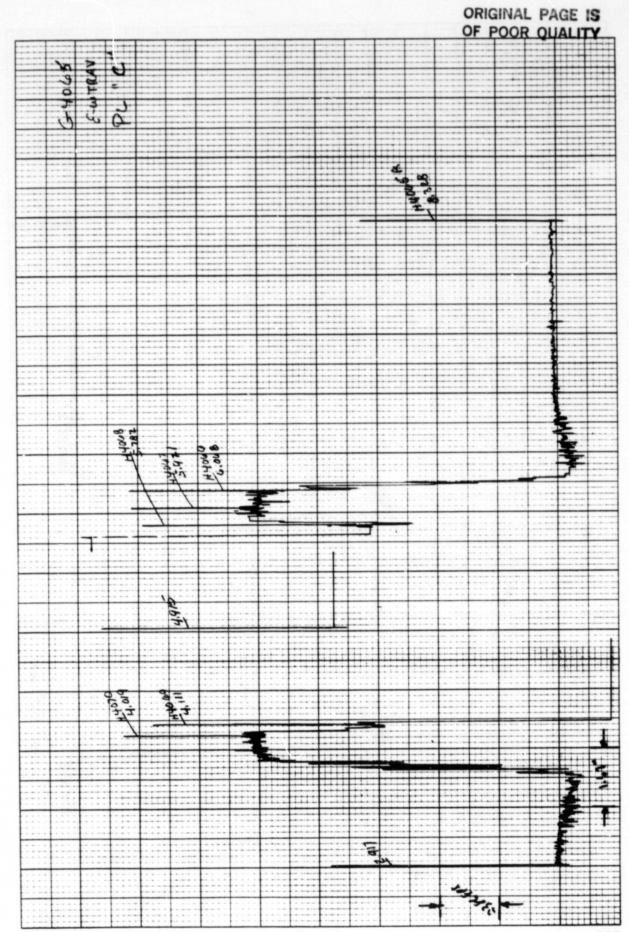


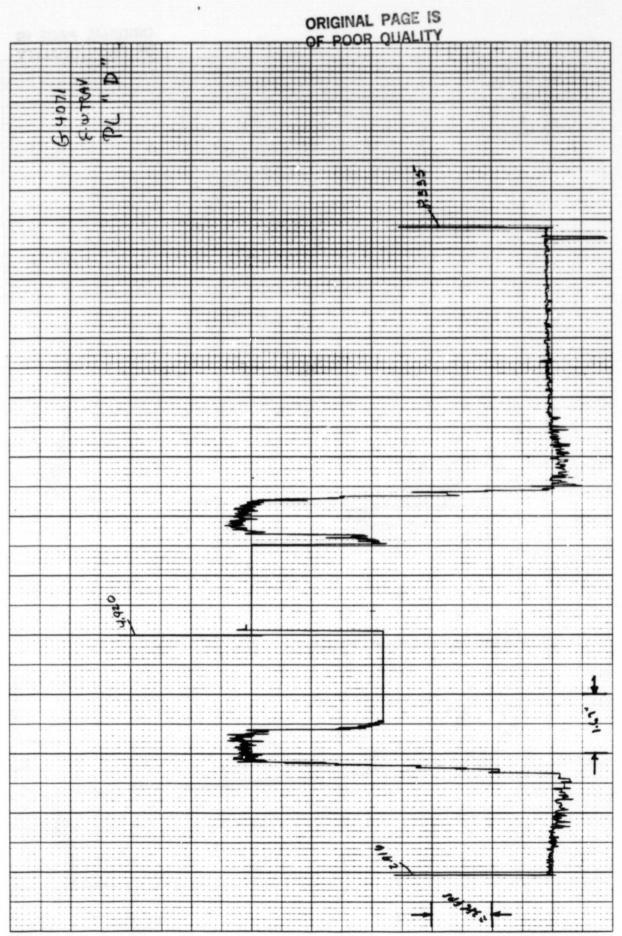


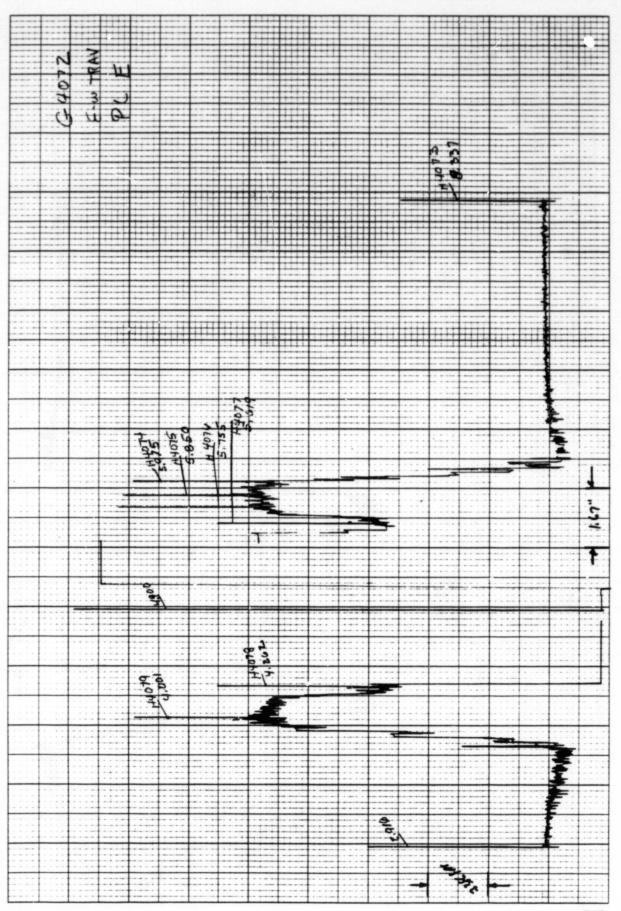


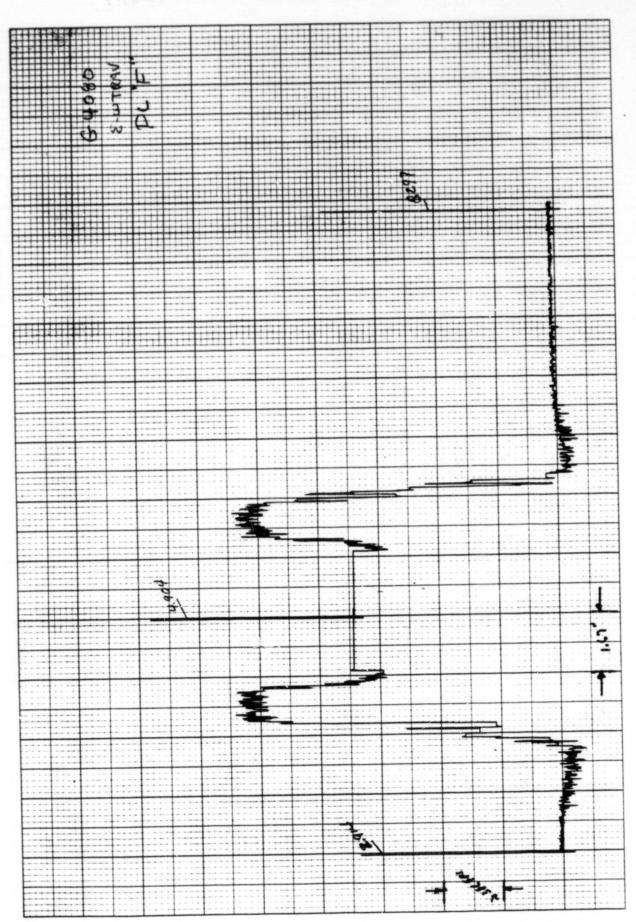


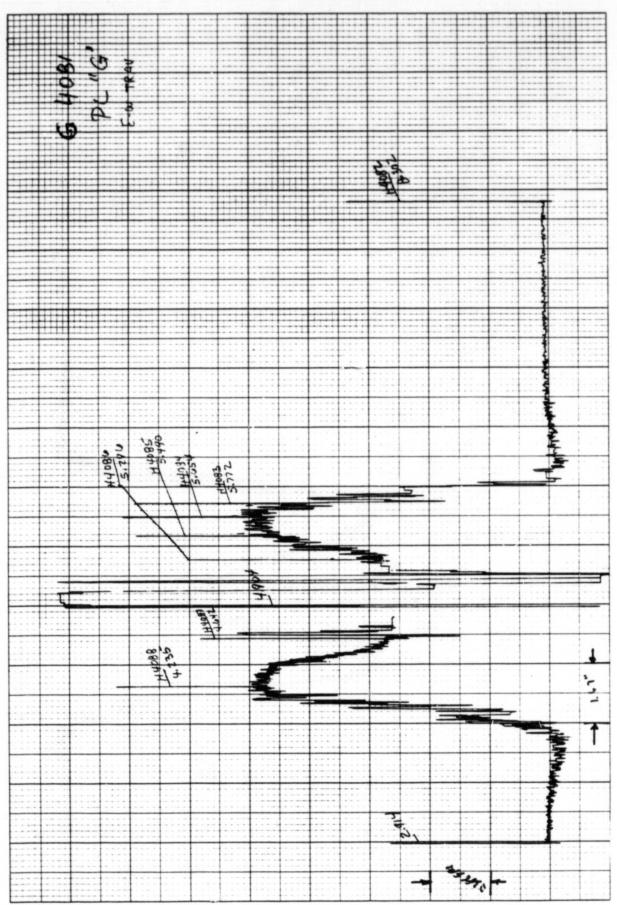


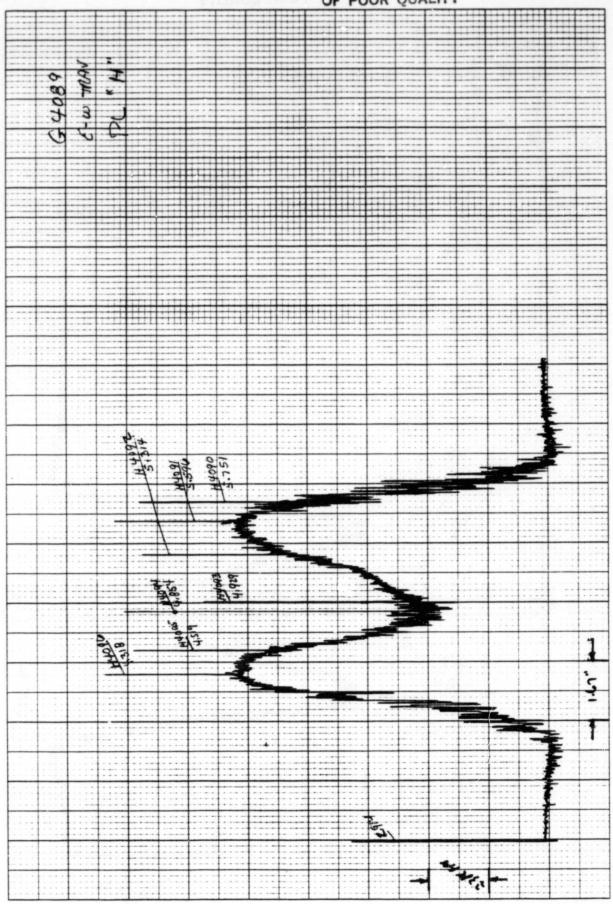




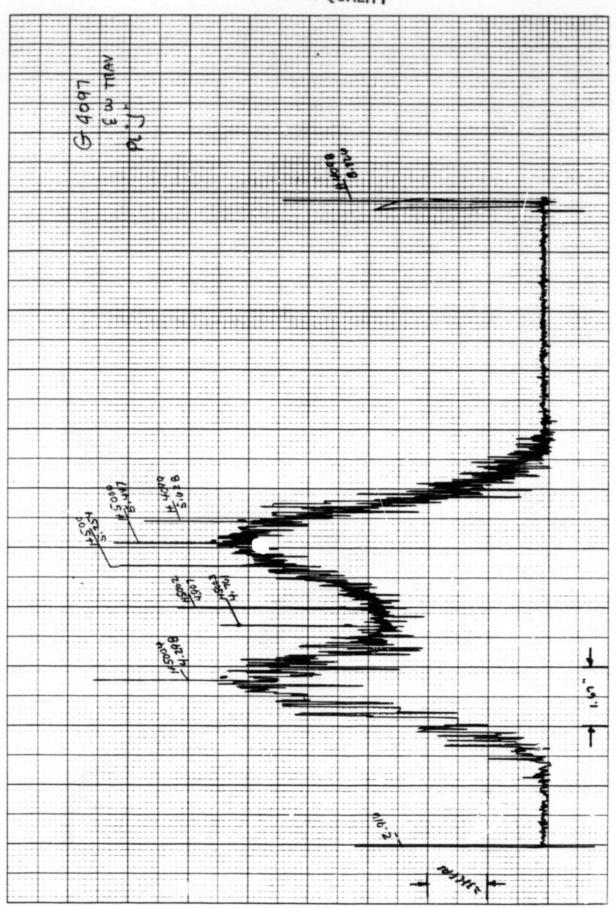




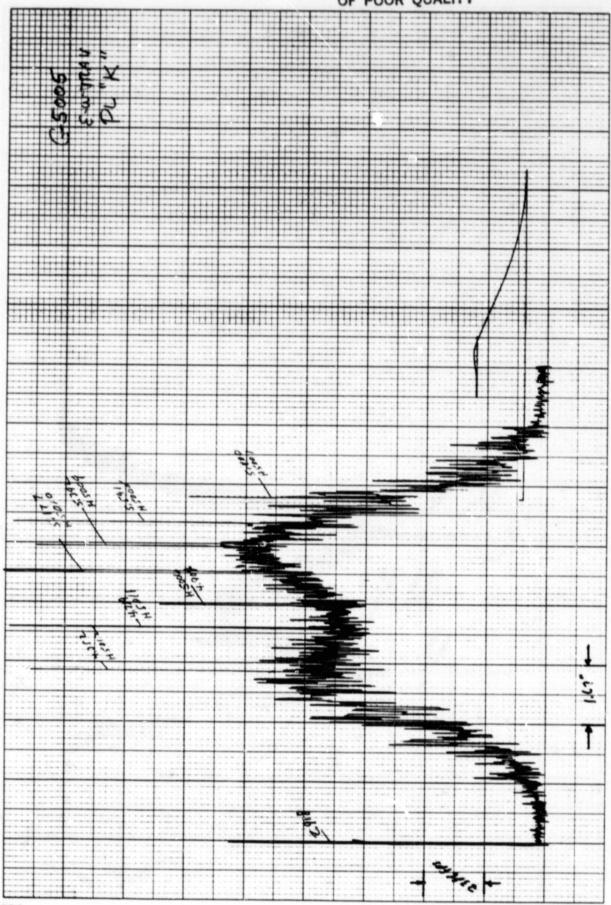


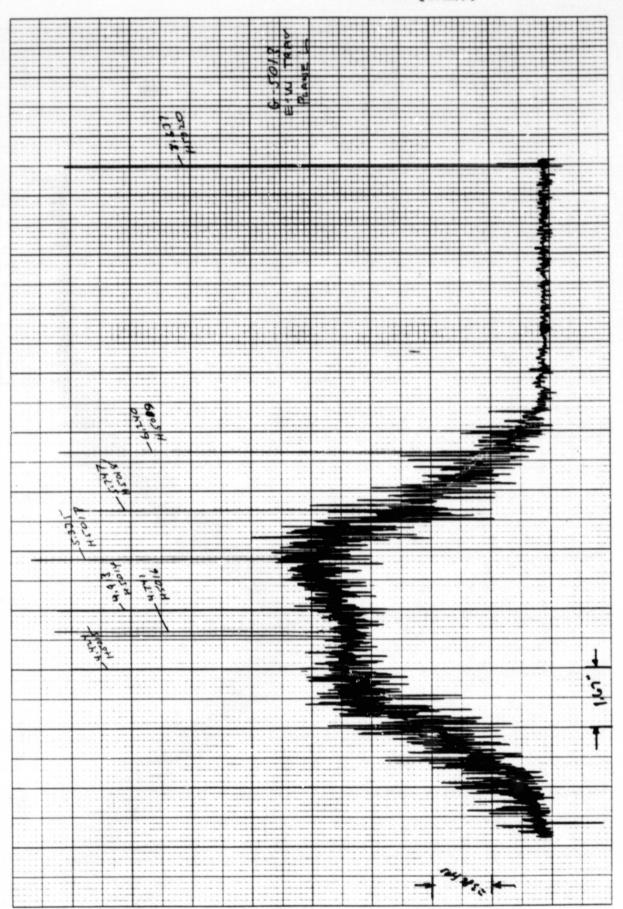


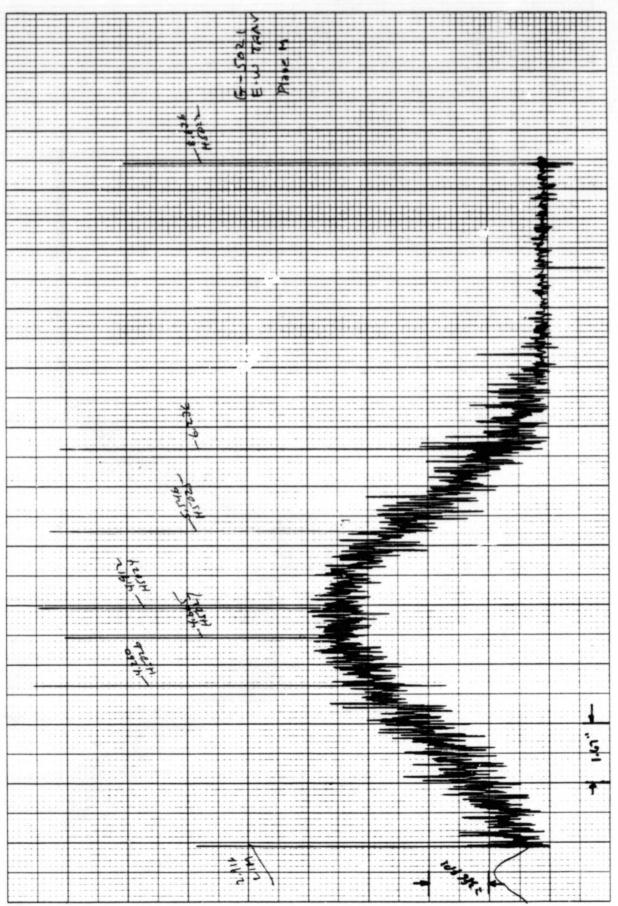
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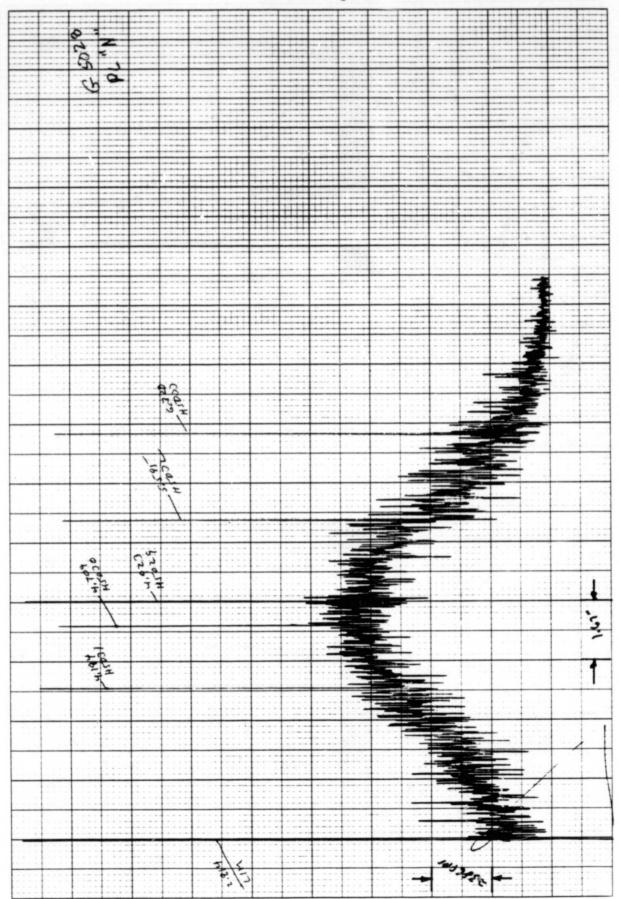


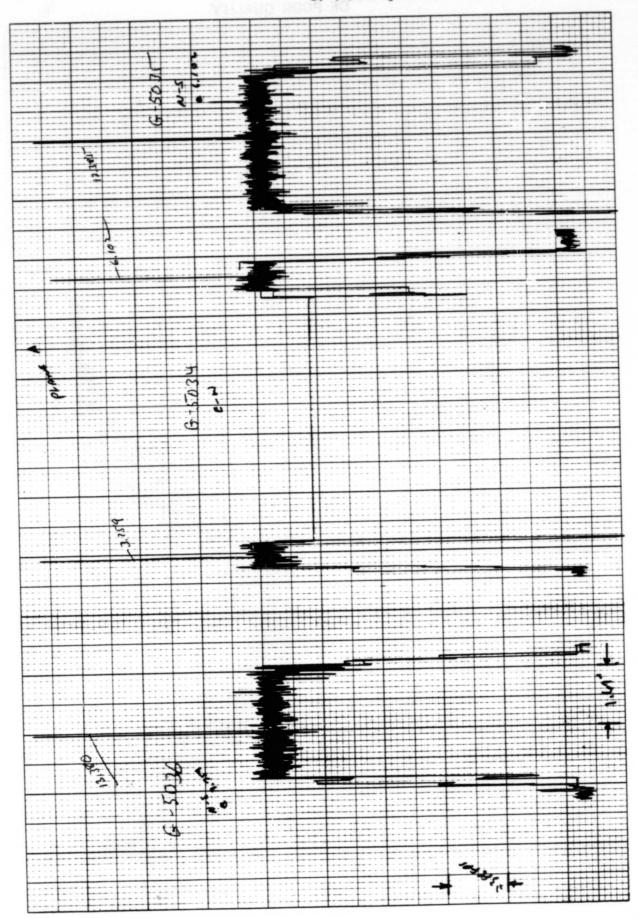
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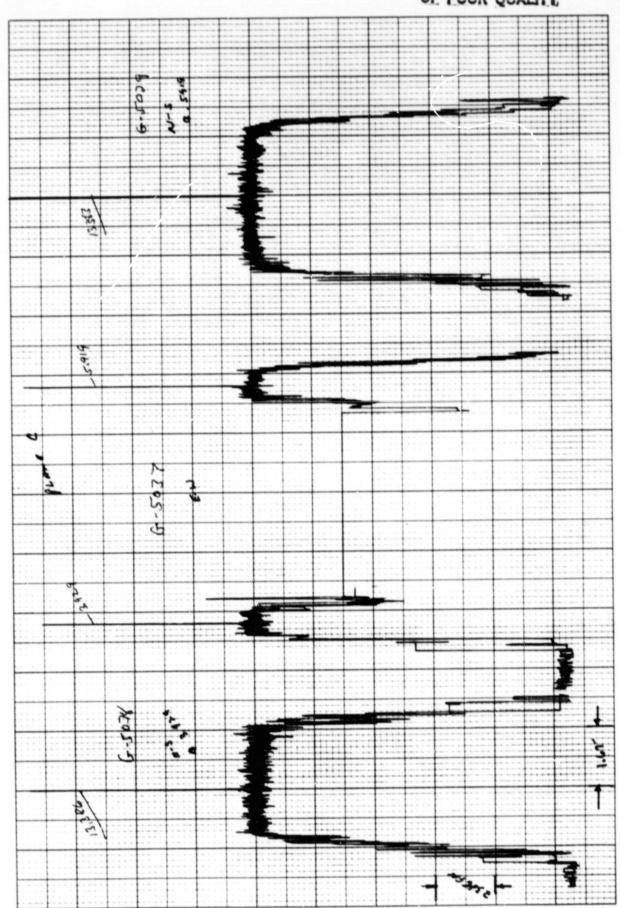




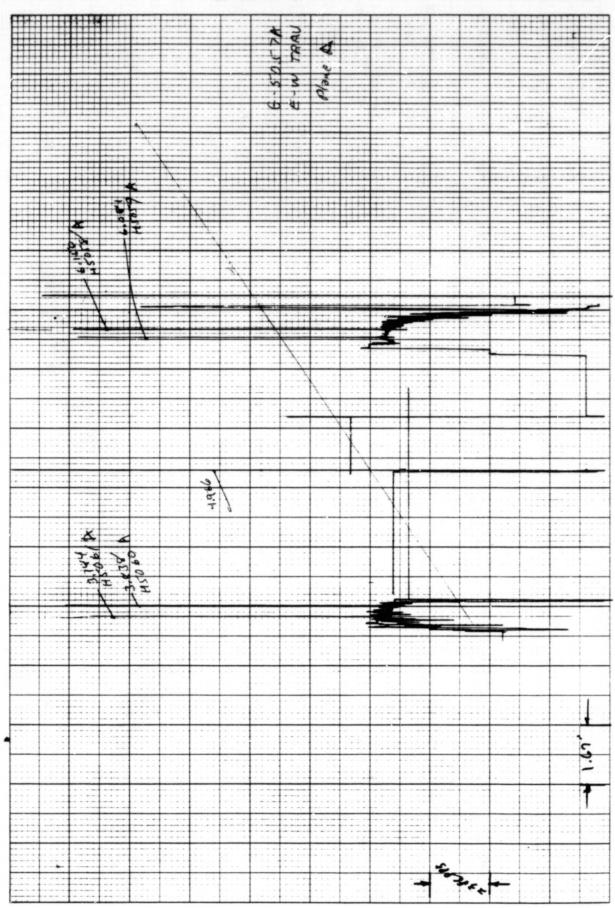


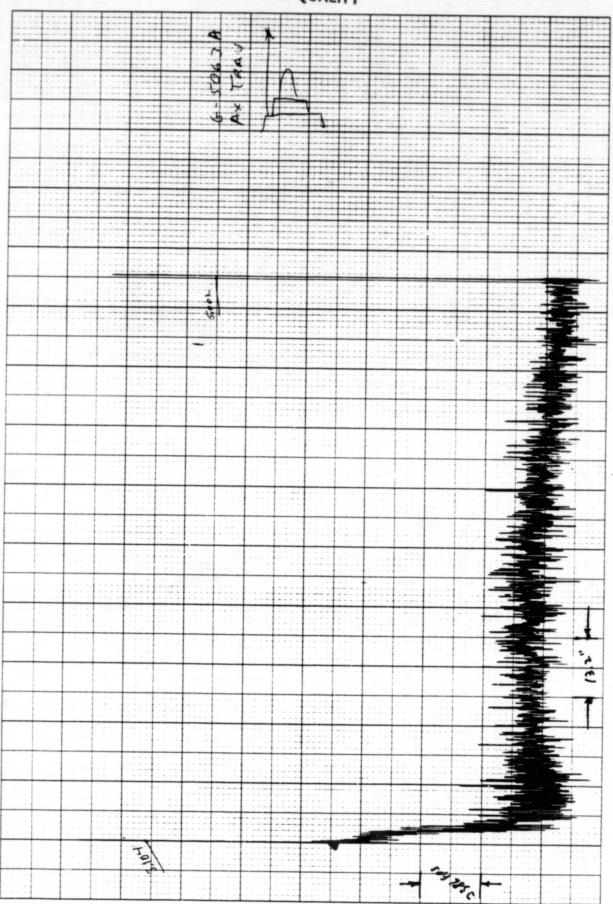


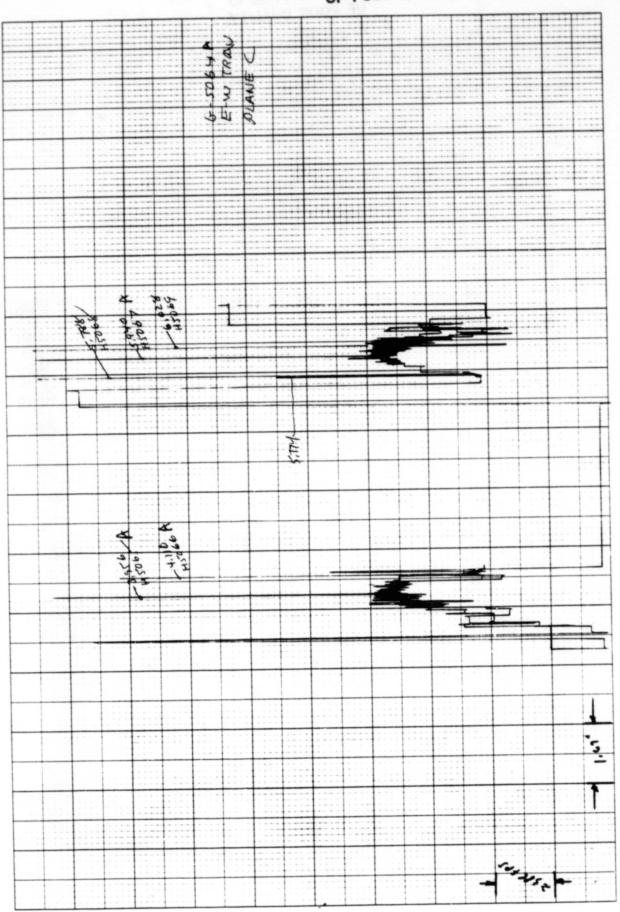
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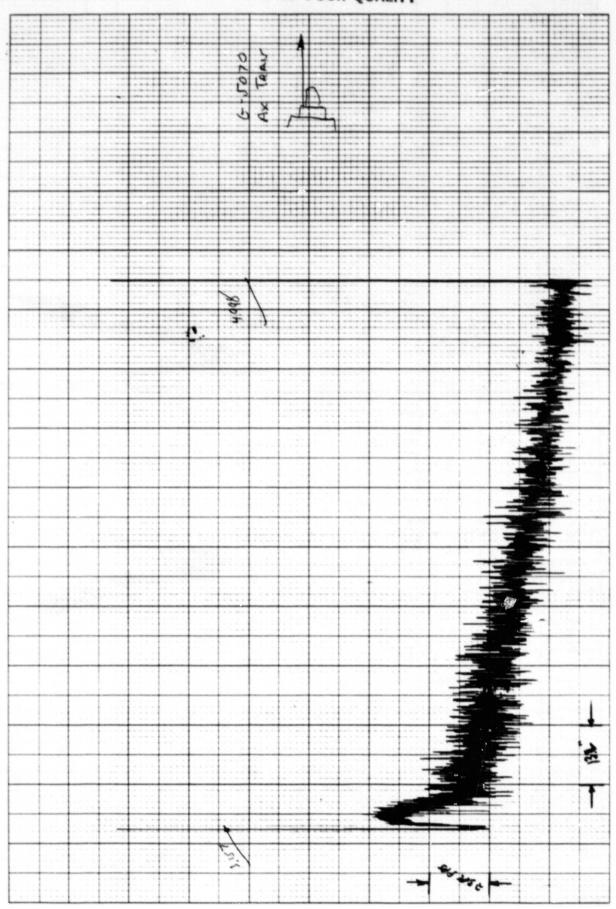


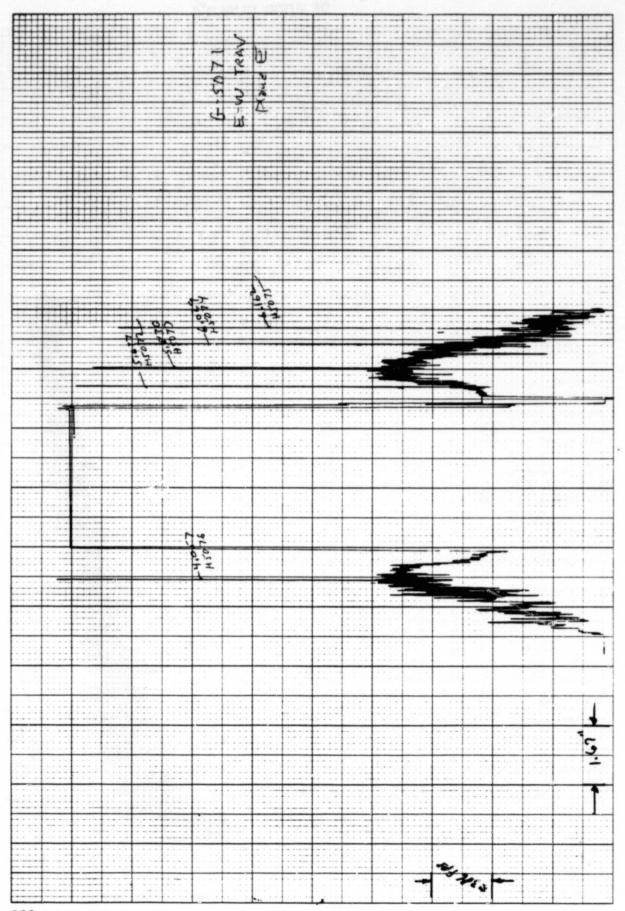
MODEL 1 TEST POINT 1505

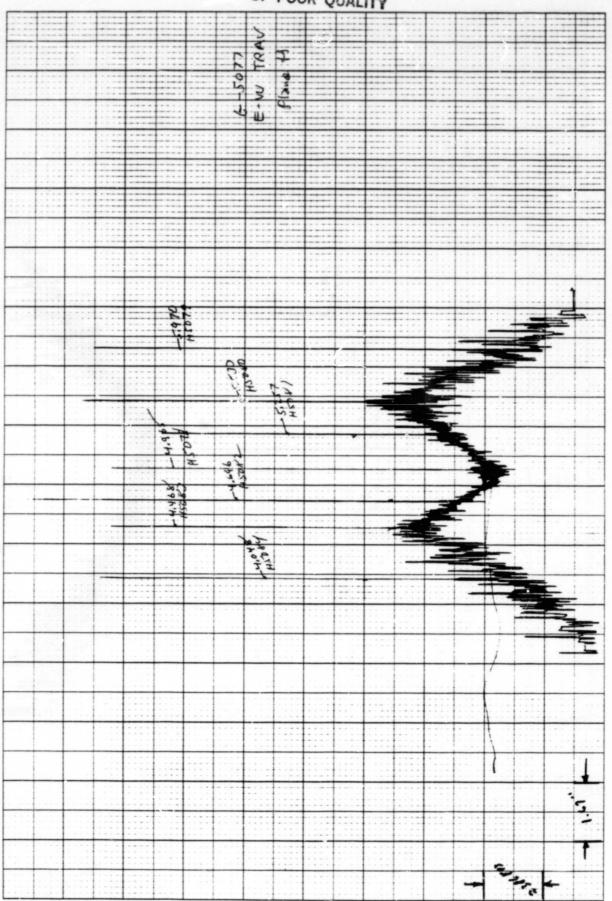


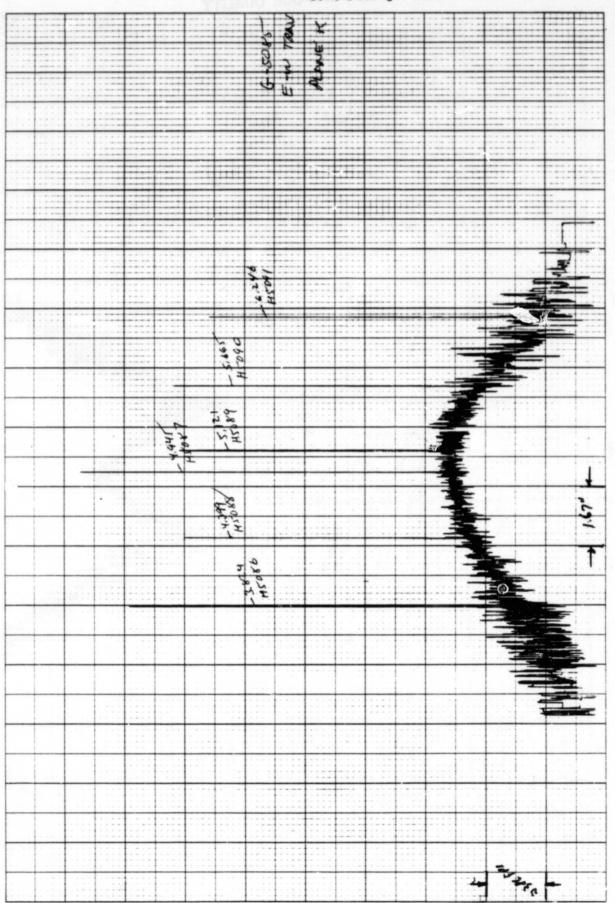




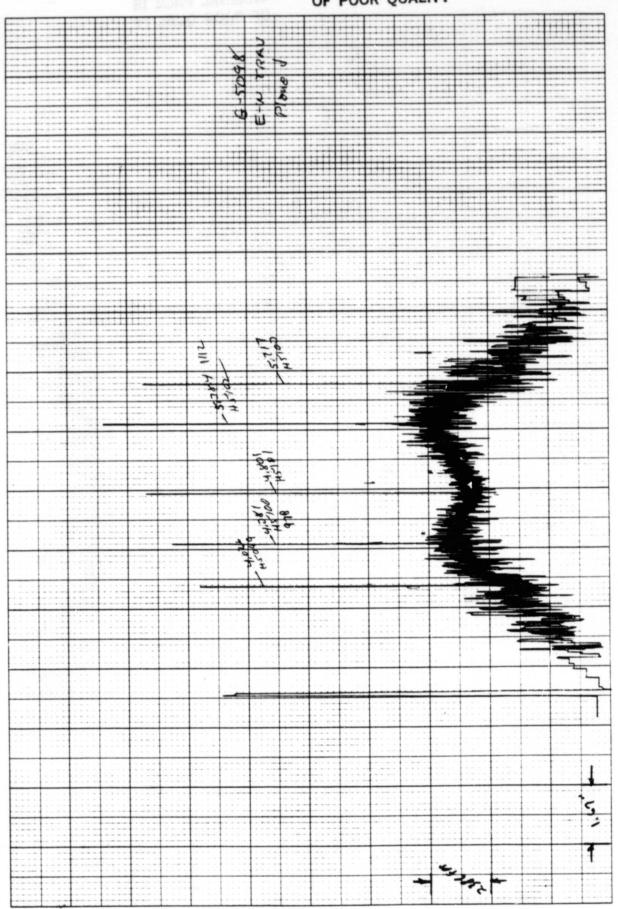




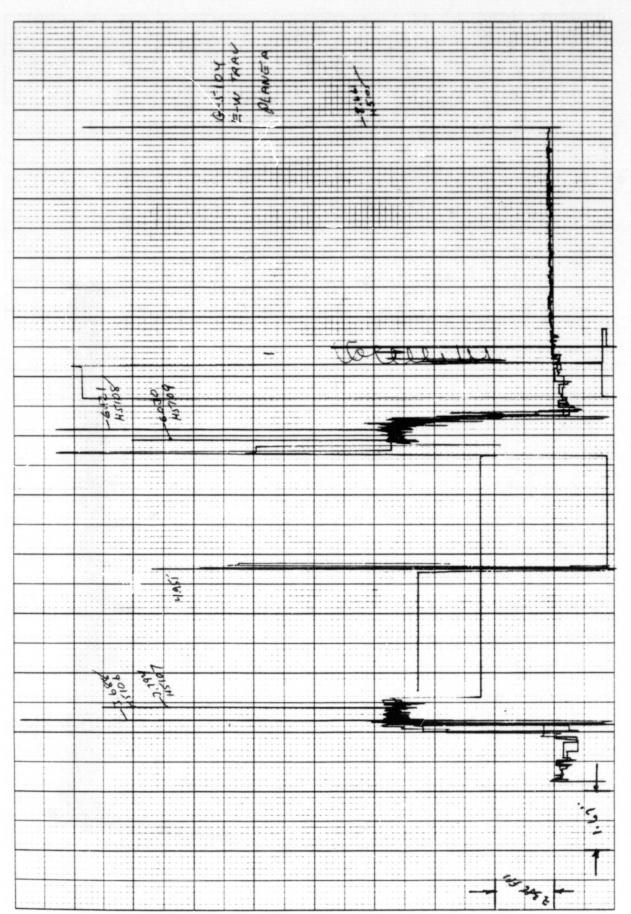


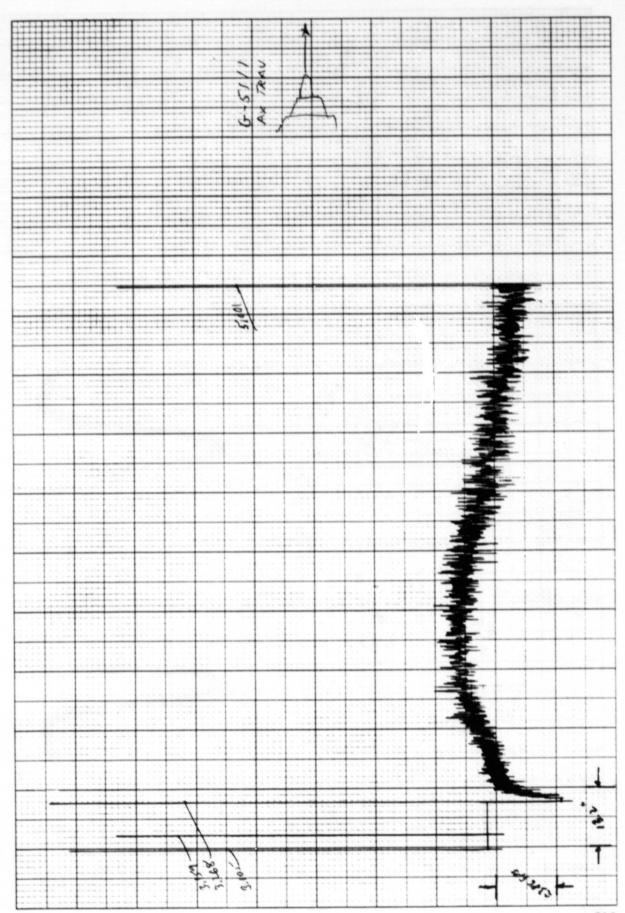


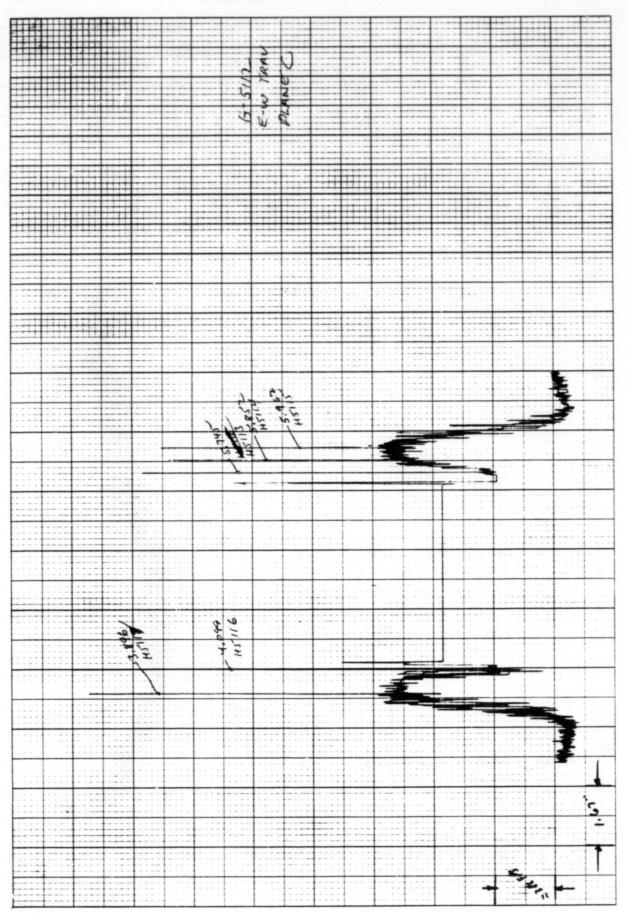
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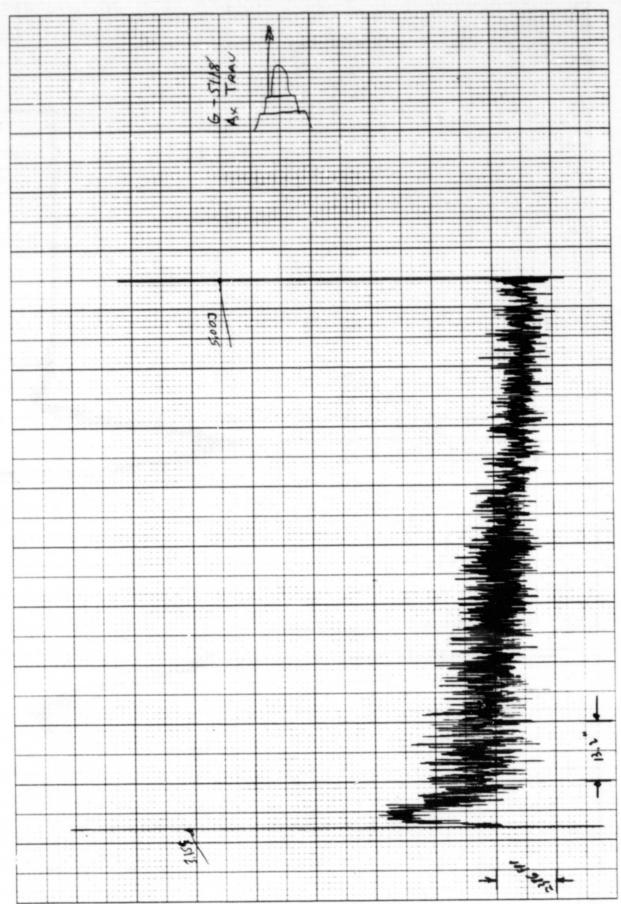


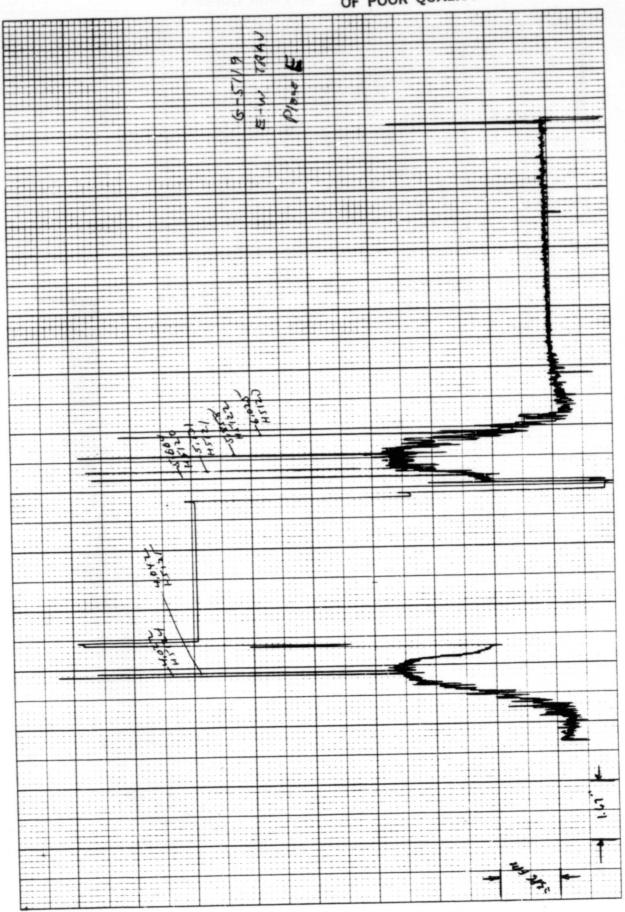
MODEL 1 TEST POINT 1506

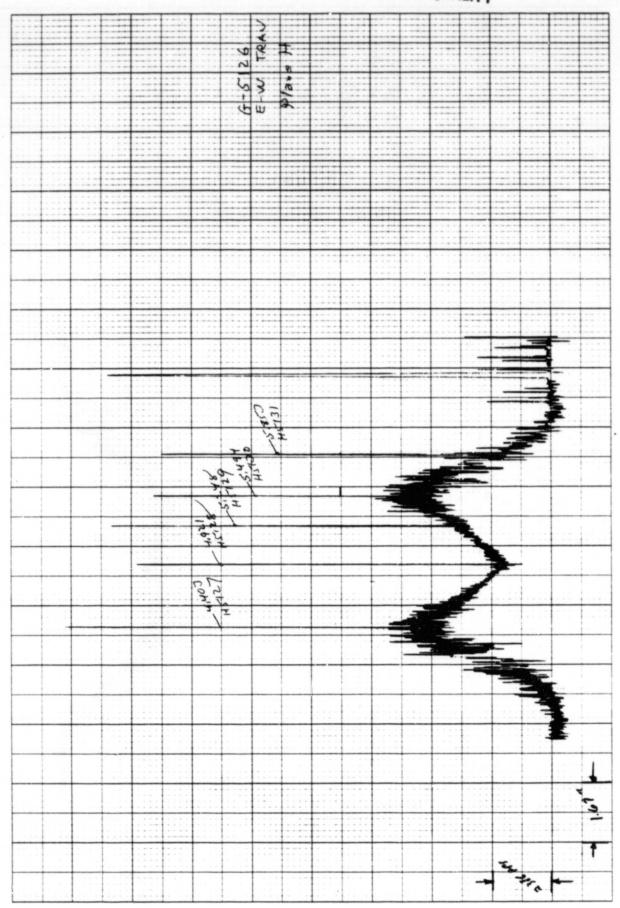


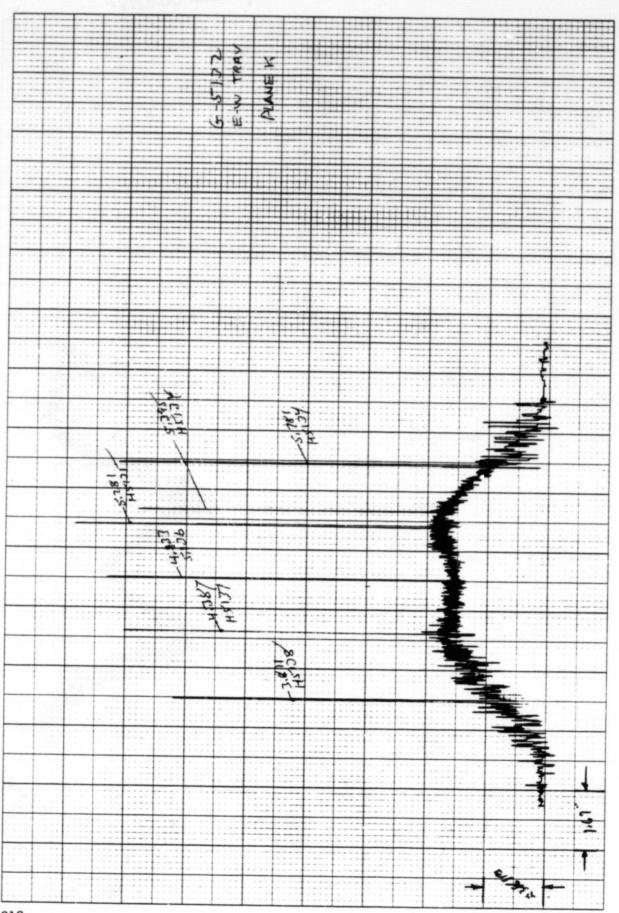




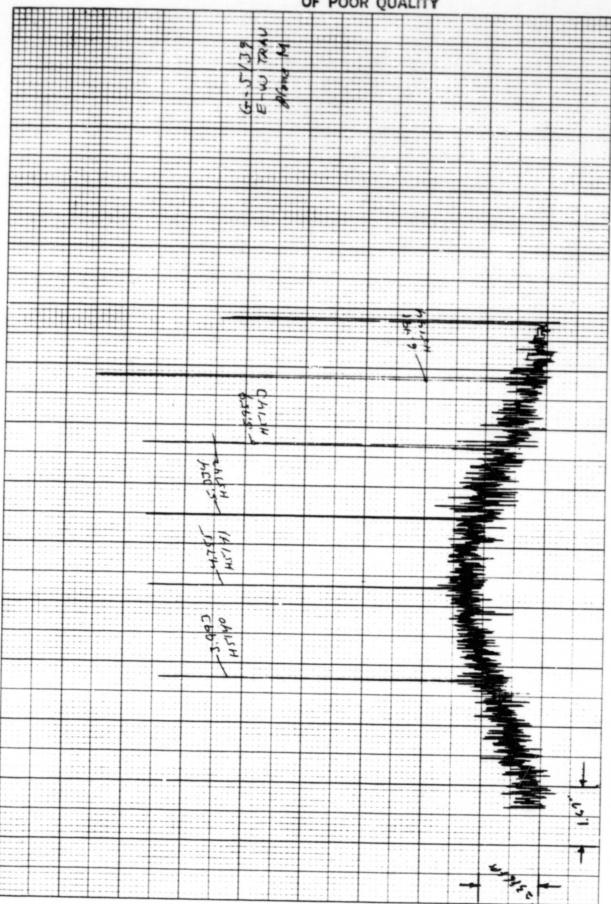




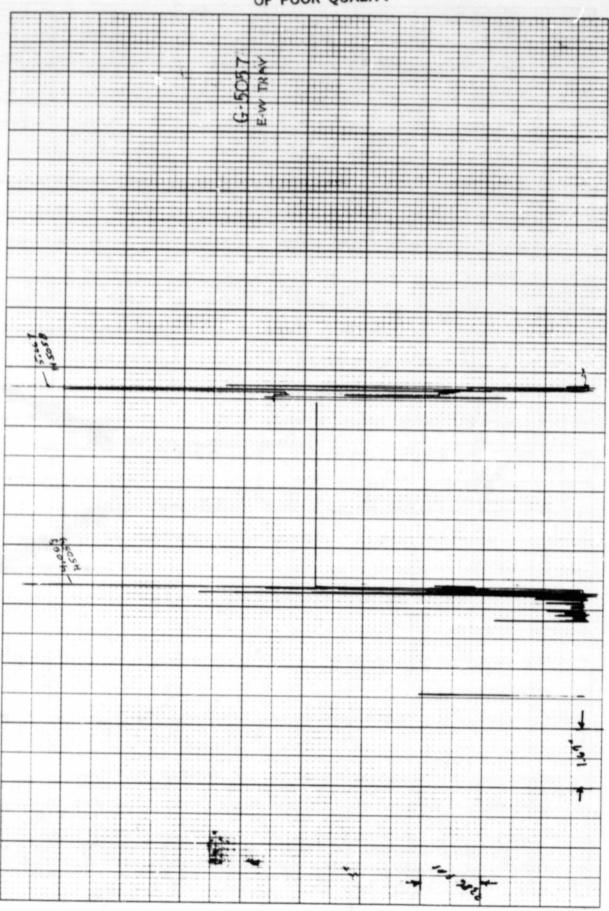


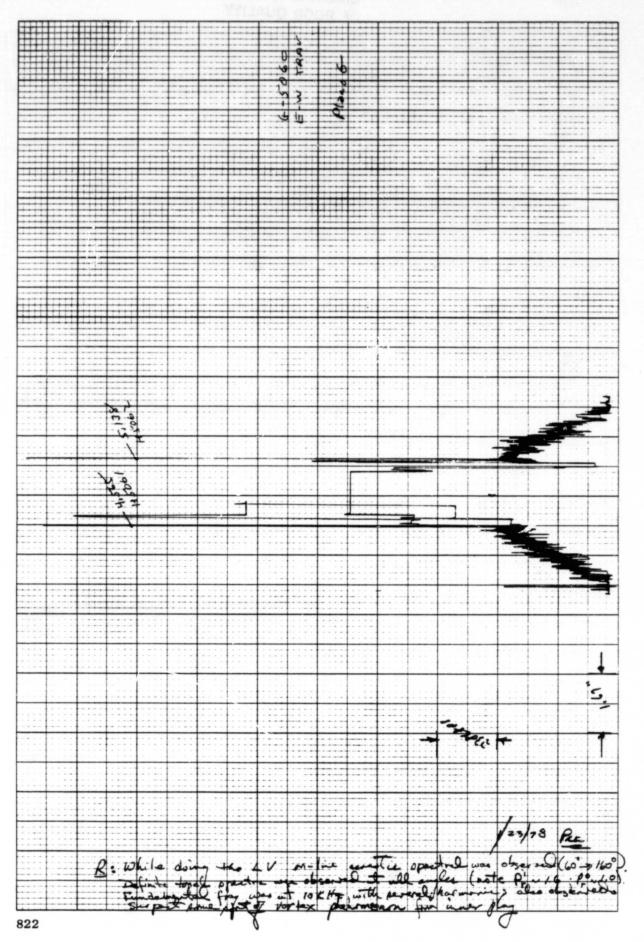


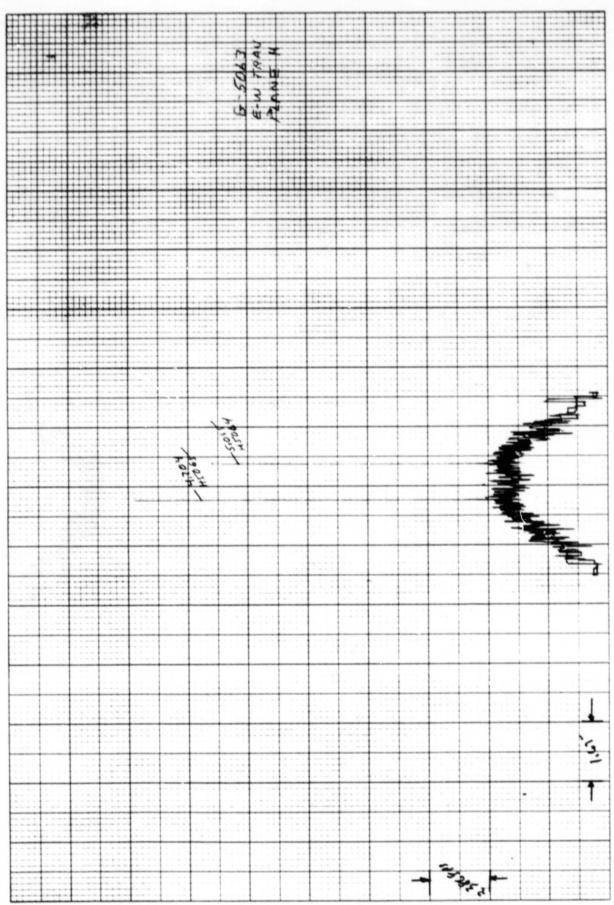
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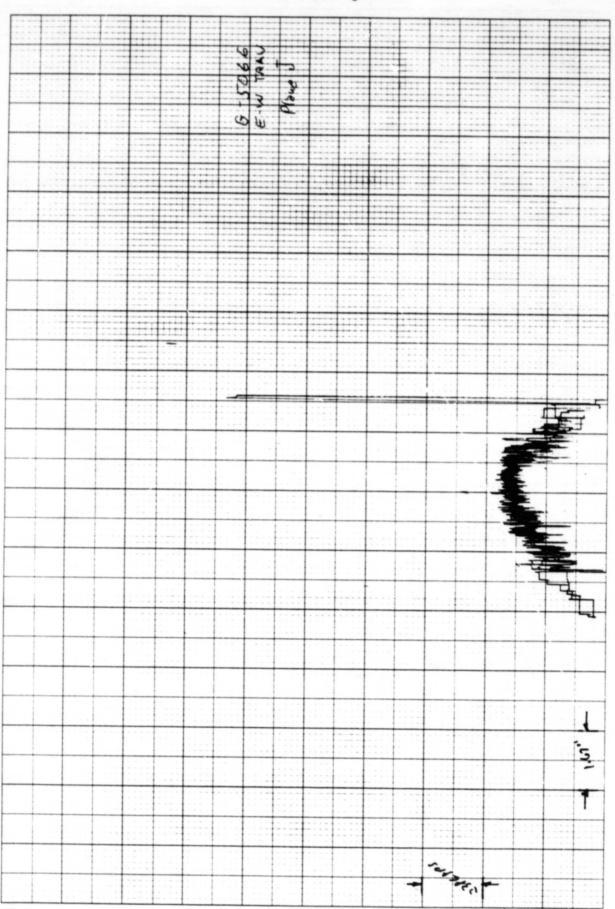


MODEL 1 TEST POINT 113A



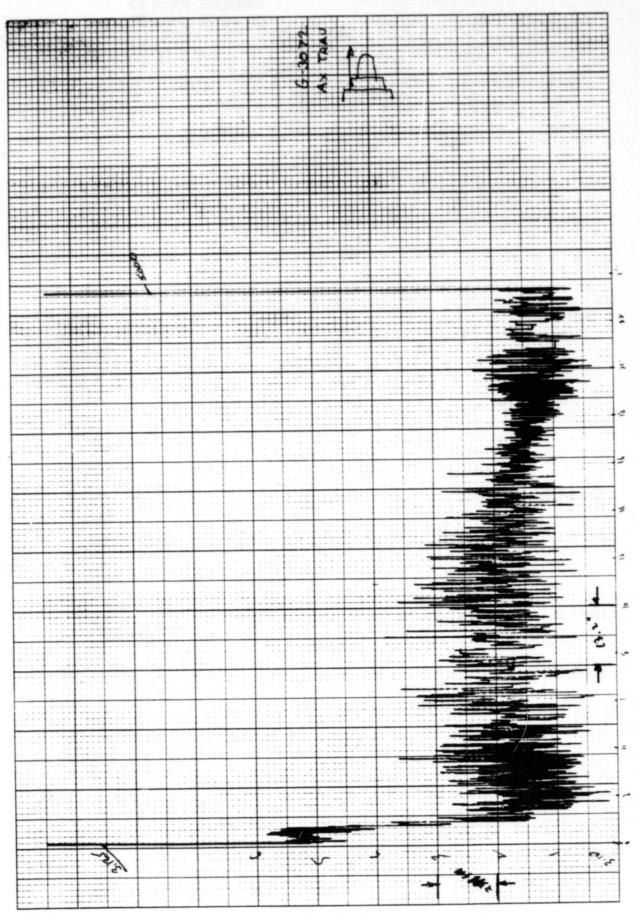


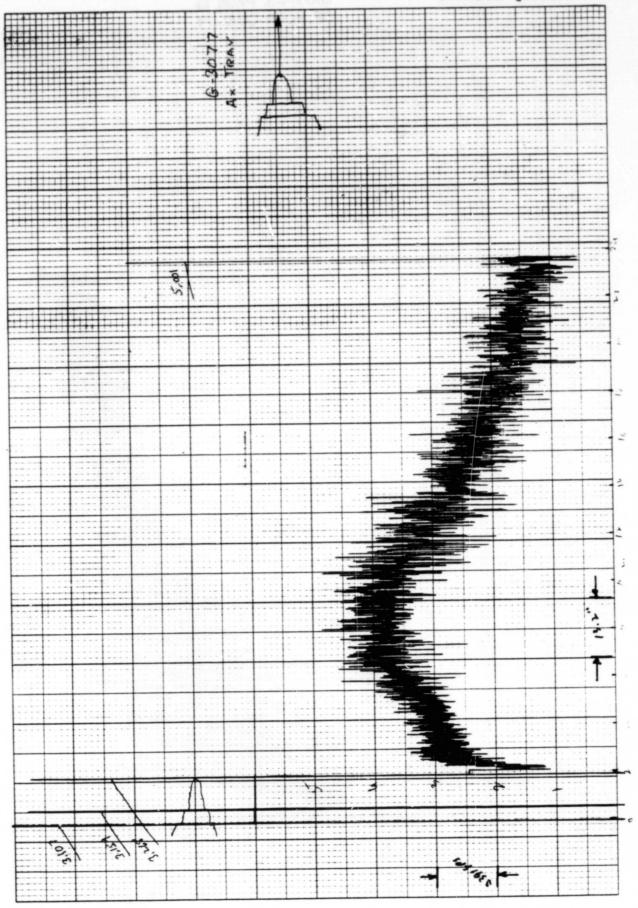


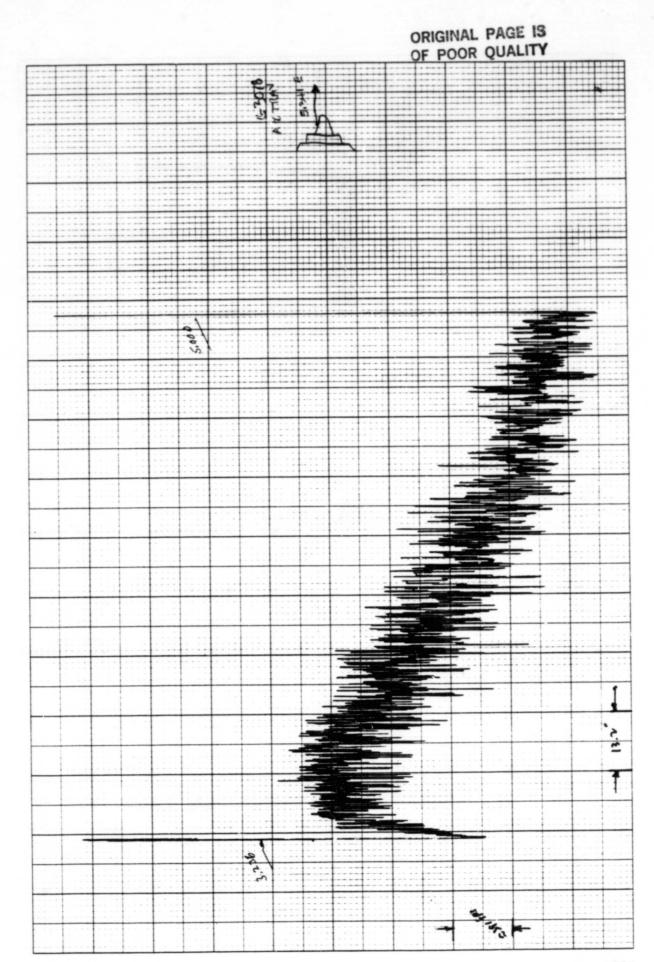


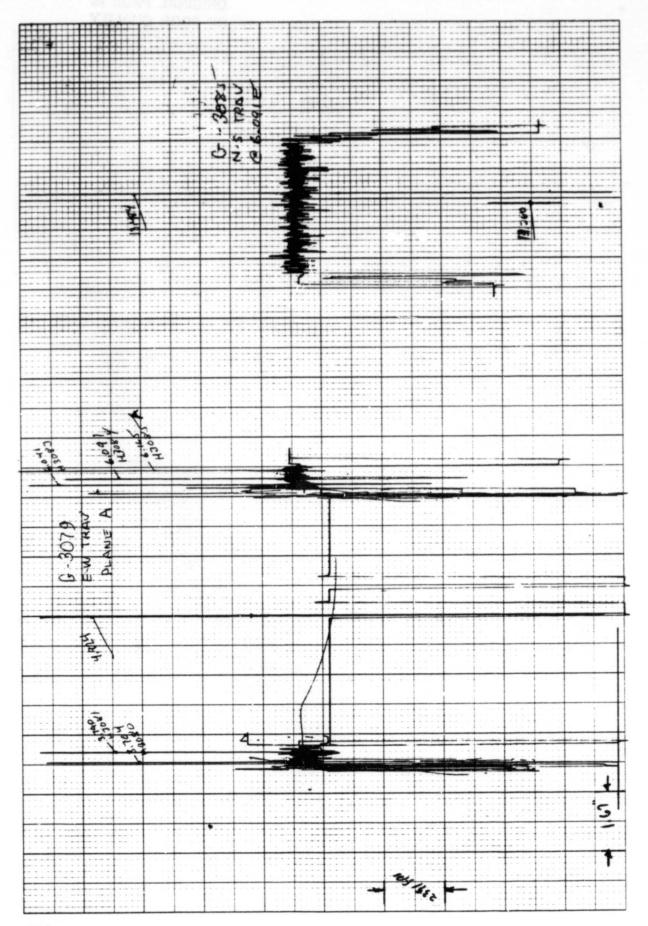
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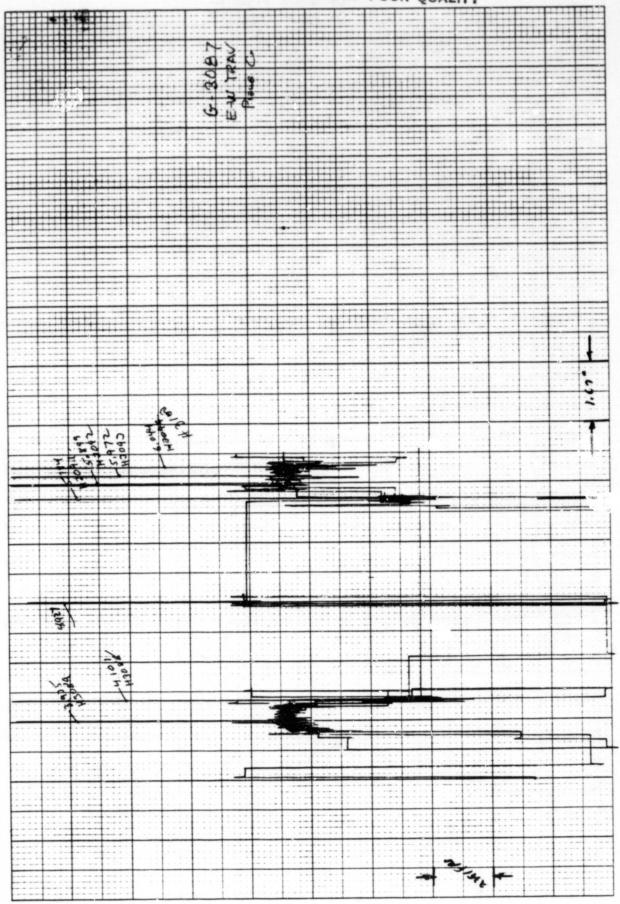
MODEL 1 TEST POINT 116

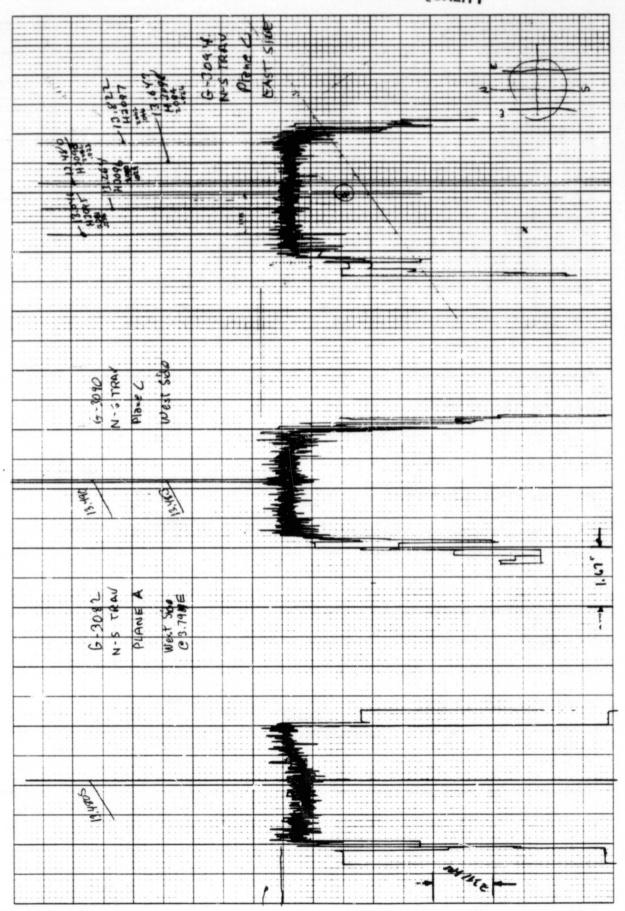


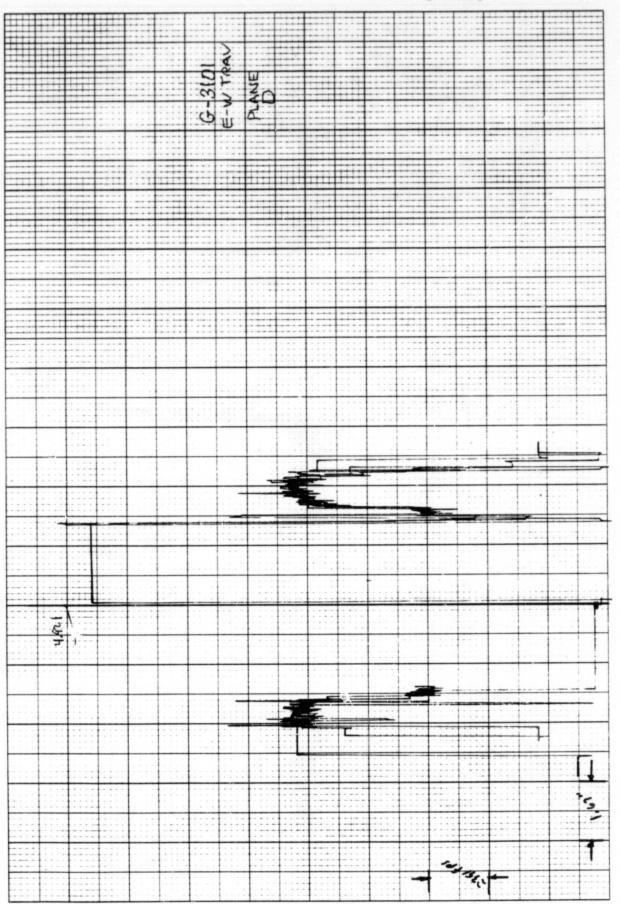


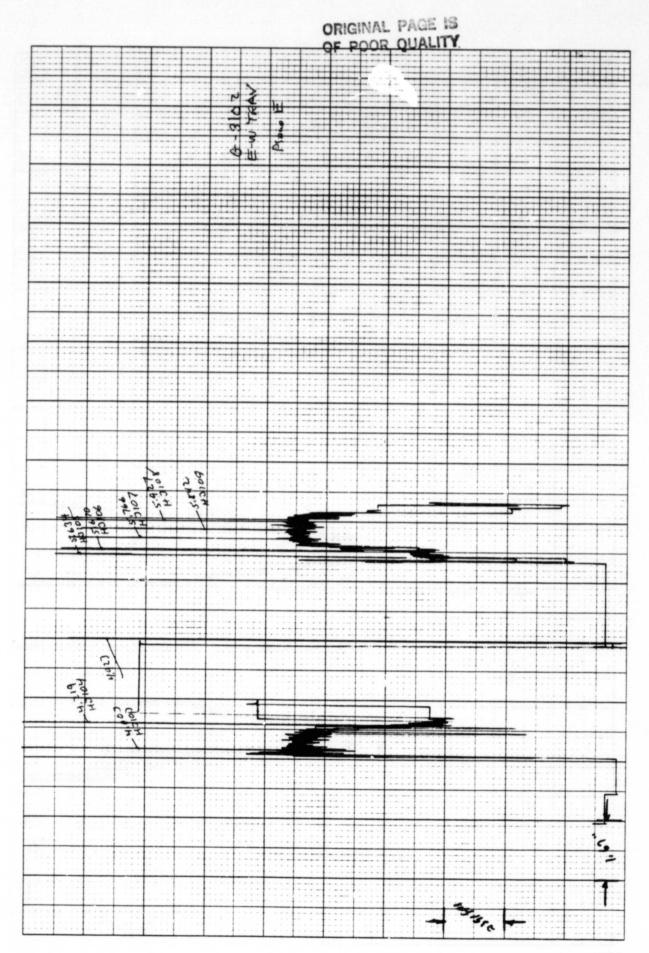


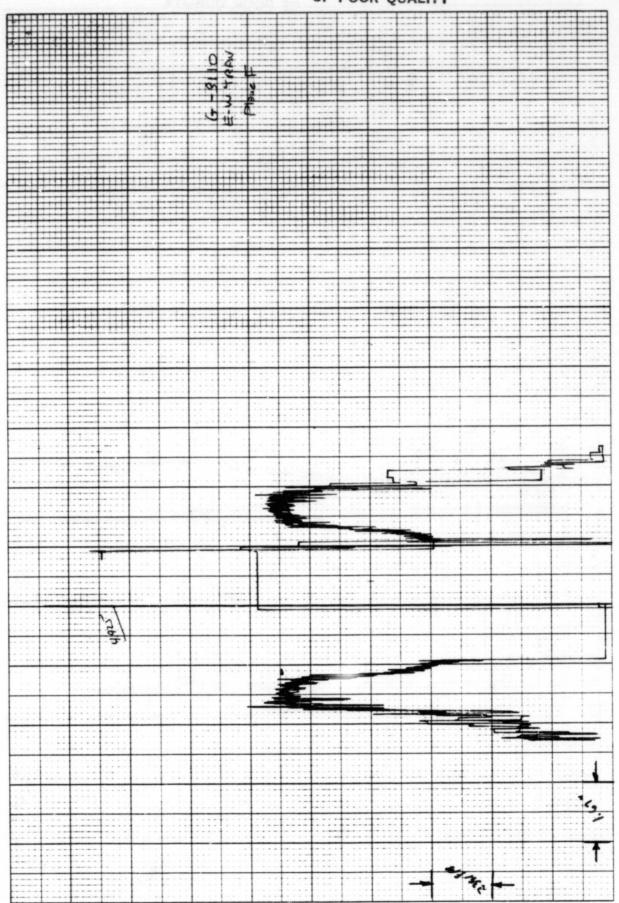


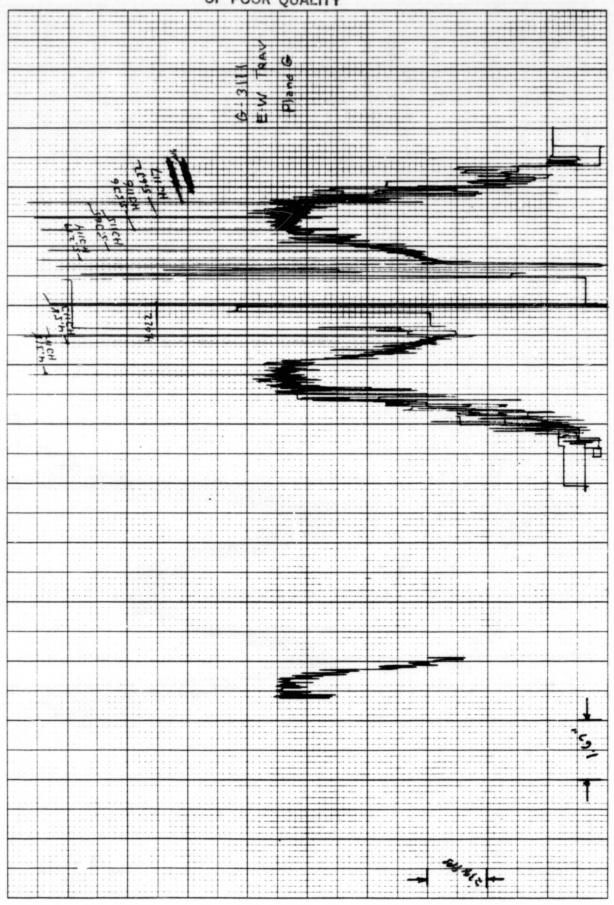


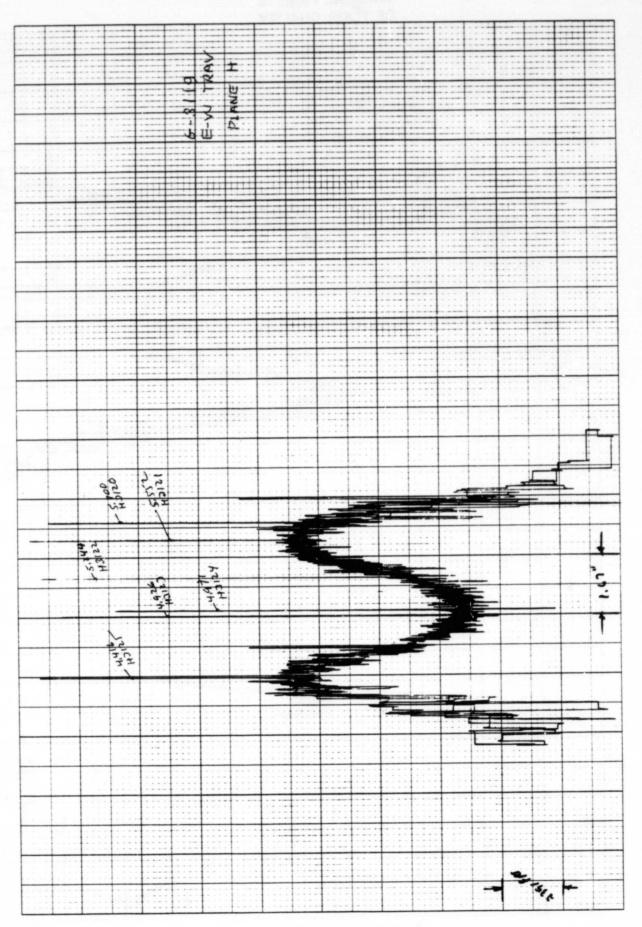


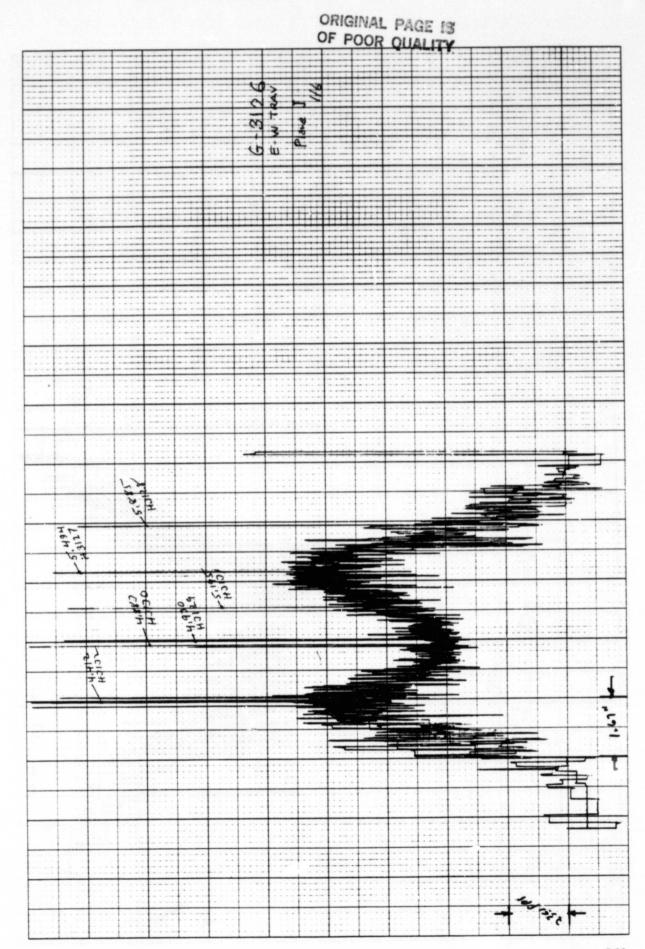


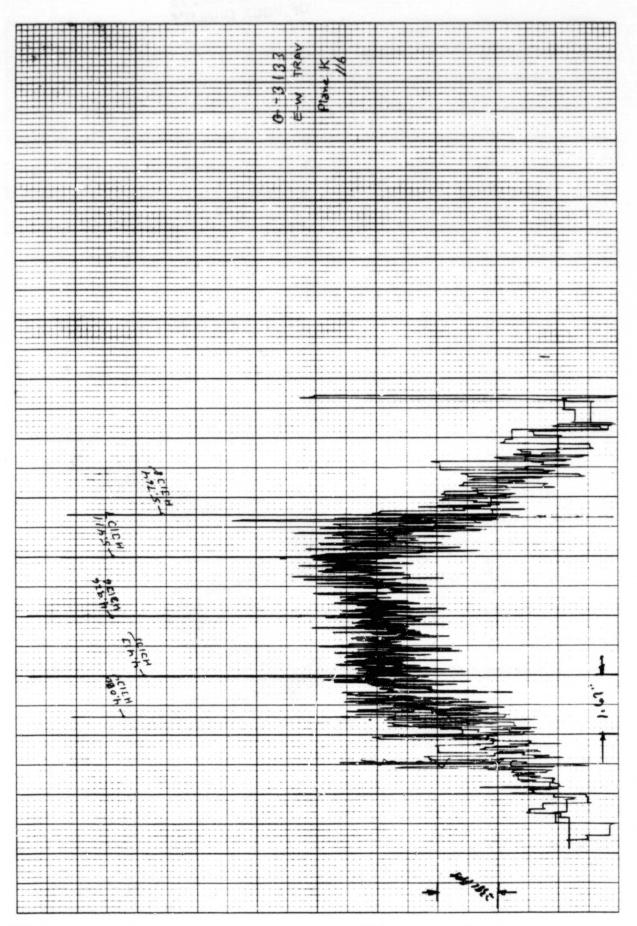


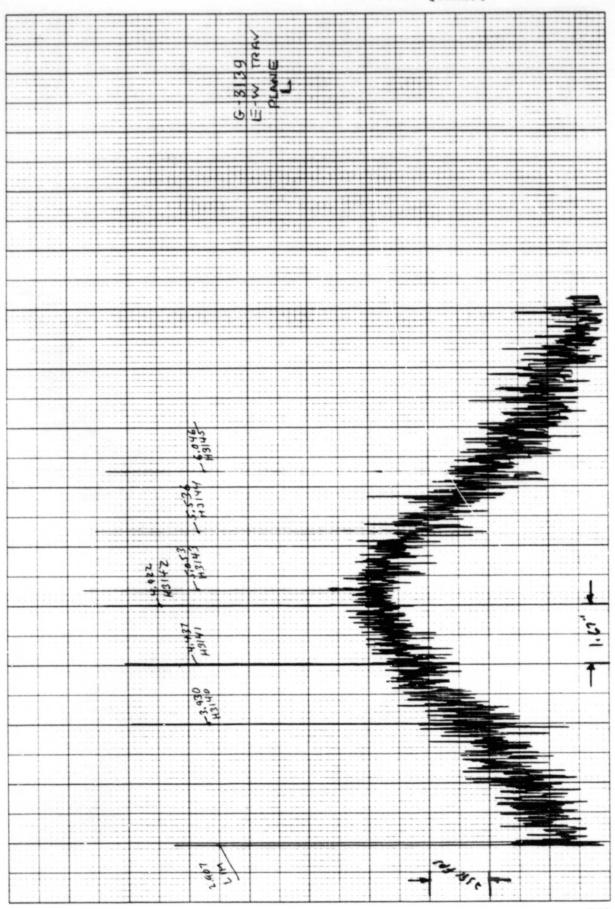




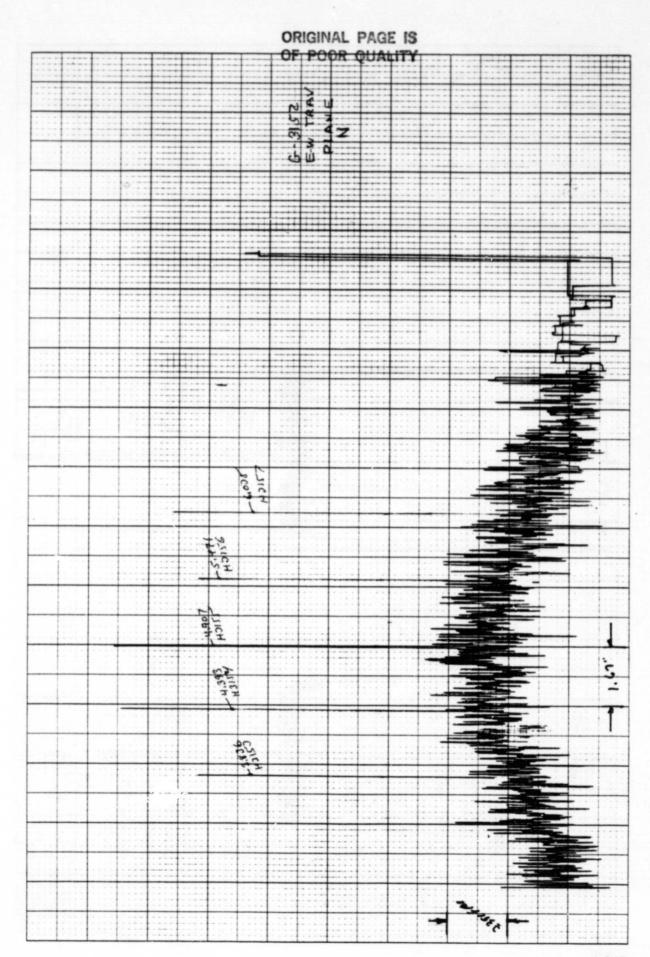


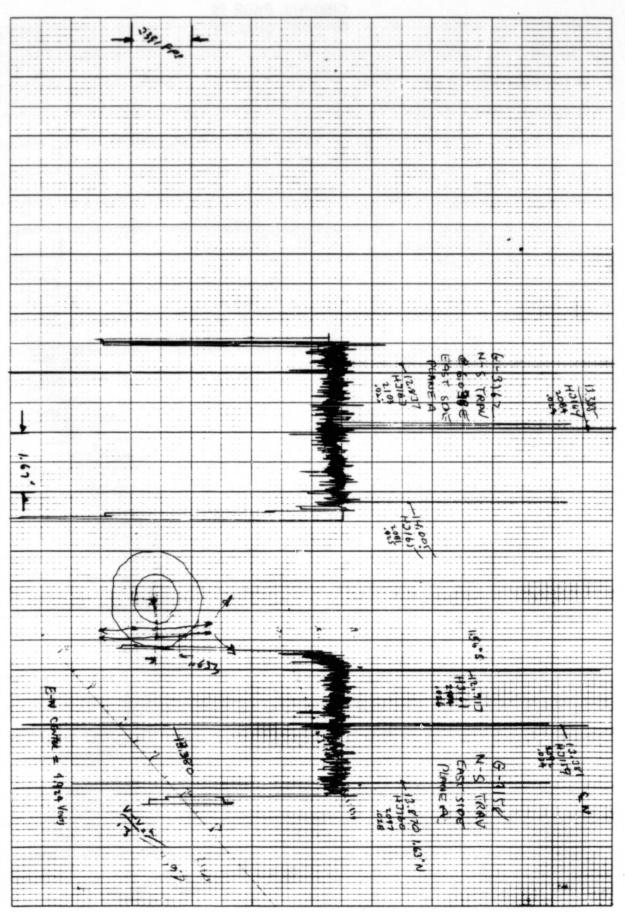






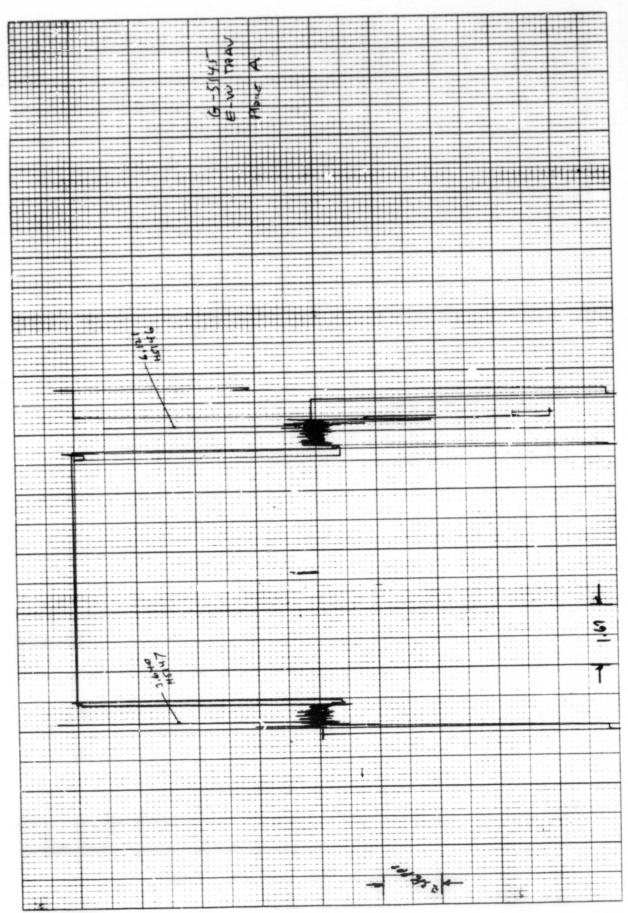
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MODEL 1 TEST POINT 119A



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